

1                                   **STATE OF NEW HAMPSHIRE**

2                                   **SITE EVALUATION COMMITTEE**

3 **May 31, 2017 - 9:02 a.m.**

**DAY 10**

4 49 Donovan Street  
5 Concord, New Hampshire

**Morning Session ONLY**

6                    {*Electronically filed with SEC on 06-08-17*}

7  
8                    **IN RE:    SEC DOCKET NO. 2015-06**  
9                                    **Joint Application of Northern**  
10                                   **Pass Transmission, LLC, and**  
11                                   **Public Service Company of**  
                                      **New Hampshire d/b/a Eversource**  
                                      **Energy for a Certificate**  
                                      **of Site and Facility.**  
                                      **(Hearing on the merits)**

12 **PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE:**

13 **Chrmn. Martin P. Honigberg**   Public Utilities Comm.  
14                                    *(Presiding as Presiding Officer)*

15 **Cmsr. Kathryn M. Bailey**       Public Utilities Comm.  
16 **Dir. Craig Wright, Designee**   Dept. of Environ. Serv.  
17 **Christopher Way, Designee**    Dept. of Resources &  
  Economic Development  
18 **William Oldenburg, Designee**   Dept. of Transportation  
19 **Patricia Weathersby**           Public Member  
20 **Rachel Whitaker**                Alternate Public Member

21 **ALSO PRESENT FOR THE SEC:**

22 Michael J. Iacopino, Esq., Counsel for SEC  
23                                    *(Brennan, Caron, Lenahan & Iacopino)*

24 Pamela G. Monroe, SEC Administrator

*(No Appearances Taken)*

**COURT REPORTER:**   Steven E. Patnaude, LCR No. 052

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

I N D E X

PAGE NO.

WITNESS PANEL:           KENNETH BOWES  
                          (*resumed*)           DERRICK BRADSTREET  
  LYNN FARRINGTON  
  SAMUEL JOHNSON  
  JOHN KAYSER  
  NATHAN SCOTT

Cross-examination by Ms. Percy	6
Cross-examination by Mr. Cunningham	22
Cross-examination by Mr. Van Houten	53
Cross-examination by Mr. Lakes	76

**E X H I B I T S**

<b>EXHIBIT NO.</b>	<b>D E S C R I P T I O N</b>	<b>PAGE NO.</b>
DNA 58	Map showing PNGTS pipeline along the Stark right-of-way	9
APOBP 29	Title sheet of a PowerPoint Presentation "Overcoming Transmission Line Siting Challenges, Case Study Middleton-Norwalk Project, NARUC Transmission Workshop April 21, 2011 (one page)	106
APOBP 30	Options to Ash Creek (Page 30)	106
APOBP 31	Proposed Utility Bridge at Ash Creek (Page 32)	106
APOBP 32	Ash Creek Crossing (Page 31)	107
APOBP 33	Mock-up of Utility Bridge at Ash Creek (Page 33)	107
APOBP 34	Ash Creek Permitting Background (Page 34)	107
APOBP 35	Ash Creek - Northwest Corner (Page 36)	113
APOBP 36	Ash Creek - Northeast Corner (Page 37)	117
APOBP 37	Construction Duration for Each HDD (Page 38)	118
APOBP 38	Saugatuck River Crossing (P. 39)	120
APOBP 39	Saugatuck River Crossing (P. 40)	120
APOBP 40	Photograph depicting frac-out	137
APOBP 41	Webpage printout from inside-climateneews.org (Page 2 of 7)	139

**P R O C E E D I N G**

CHAIRMAN HONIGBERG: All right.

We're going to resume with the construction panel. I know all of you wish we had a VCR and we could rewind the last five minutes, the way you do when you're watching the movie at home and you break for a couple of weeks. But we don't have that luxury.

So, last night Ms. Monroe sent out a memo reminding everybody of where we were and we're picking up with the questioning of the construction panel. We're with the Dummer/Northumberland Abutting Group, Mr. Cunningham, and I understand Susan Percy is going to be asking some of the questions for that group as well. So, who's coming up first?

MR. CUNNINGHAM: Susan Percy.

CHAIRMAN HONIGBERG: Ms. Percy.

MS. PERCY: And I'm standing up because I've been driving for two and a half hours. So, I do have something to come up on the monitors. My name is Susan Percy. I am an intervenor representing the Percy Summer Club, which is located in Stark, New Hampshire.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 I also would like to think that I  
2 represent the public, because the Percy Summer  
3 Club owns the land all around Lake Christine,  
4 which is open to the public through public  
5 access on the water itself, but also public  
6 access to the Nash Stream Forest, which people  
7 access those trails through our property.

8 So, I have questions. Do I have to  
9 say anything else?

10 CHAIRMAN HONIGBERG: Just ask your  
11 questions and we'll move along.

12 MS. PERCY: Okay. Great. But I also  
13 want to tell you I'm not an attorney. So, I  
14 might be a little nervous during some of this.  
15 I'm also not a construction person. I'm just  
16 taking a look at how the issues that affect  
17 Lake Christine, the Town of Stark, and where we  
18 are, how that construction has an impact on us.

19 (Continuation of the witness  
20 panel of **Kenneth Bowes, Derrick**  
21 **Bradstreet, Lynn Farrington,**  
22 **Samuel Johnson, John Kayser,** and  
23 **Nathan Scott.**)

24 **CROSS-EXAMINATION (resumed)**

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 BY MS. PERCY:

2 Q. So, I know that this has been asked before, but  
3 because we've had the mini-recess, can you tell  
4 me why the plans submitted to the SEC don't  
5 have the Portland Natural Gas pipeline in it?

6 A. (Bradstreet) So, I guess, for the purposes of  
7 the permit drawings, we did not include that as  
8 it sort of congests the drawing, it starts to  
9 overlay on top of other things. So, it's  
10 included in our design drawings, but it's not  
11 included in our permit set.

12 Q. Okay. Great. But the pipeline runs through  
13 the entire Town of Stark, is that right?

14 A. (Bradstreet) For the area of Stark where the  
15 Project is, yes.

16 Q. Great. If your project maps presented to the  
17 SEC had fully shown the location of the  
18 Portland Natural Gas pipeline through Stark,  
19 would that pipeline appear a consistent  
20 distance from the edge of the right-of-way or  
21 would it change?

22 A. (Bradstreet) I believe it changes somewhat, but  
23 it's fairly consistent.

24 Q. Okay. If it varies, by what distance, do you

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 know?

2 A. (Bradstreet) I do not know off the top of my  
3 head.

4 A. (Bowes) It is a 50-foot easement they have, so  
5 it's within that 50 feet.

6 Q. The pipeline has the 50-foot easement?

7 A. (Bowes) That is correct.

8 Q. Okay. Great. Thank you. I thought it was  
9 75 feet, but I'm going to take your word for  
10 it.

11 Can you talk, and I don't know who would  
12 talk about the siting issues that you had to  
13 consider for the pipeline, because of the  
14 problems the pipeline created on the 150 feet  
15 right-of-way?

16 A. (Bradstreet) I could. Specifically what  
17 problems are you referring to?

18 Q. Well, we have a narrow right-of-way, is that  
19 right?

20 A. (Bradstreet) We have a 150-foot right-of-way.

21 Q. And that's -- would that be something that you  
22 think is a large right-of-way or a narrow  
23 right-of-way?

24 A. (Bradstreet) Through New Hampshire, it's pretty

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 common, --

2 Q. Okay.

3 A. (Bradstreet) -- to be 150 feet.

4 Q. And, typically, though, you don't have a buried  
5 pipeline in your 150-foot right-of-ways?

6 A. (Bradstreet) I wouldn't say it's "typically".  
7 This area happens to have it in it, and the  
8 rest of the Project does not. But there are  
9 pipelines collocated in electric easements  
10 across the United States. It's not very --  
11 it's not uncommon.

12 Q. Okay. So, tell me a little bit about the code  
13 requirements. And I have my questions on this,  
14 wait a minute. Just so you know what we're --  
15 oops.

16 *[Brief off-the-record discussion*  
17 *ensued regarding orientation of*  
18 *document on ELMO.]*

19 BY MS. PERCY:

20 Q. There's a lot of detail in this map. Is this  
21 the same map that you have uploaded to the  
22 ShareFile?

23 A. (Bradstreet) I don't specifically know if this  
24 was provided by us or not.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Okay.

2 A. (Bradstreet) Yes. I mean, this is a PNGTS  
3 drawing.

4 Q. Right.

5 A. (Bradstreet) So, it's from the Pipeline.

6 MS. PERCY: Yes. Just for everyone's  
7 sake, this is the Portland Natural Gas pipeline  
8 that is in existence now along the Stark  
9 right-of-way.

10 MR. IACOPINO: Ms. Percy, is the  
11 exhibit that you're showing to everybody right  
12 now, does it have a number or an identifier of  
13 some sort?

14 MS. PERCY: That's going to be number  
15 58, "DNA 58".

16 MR. IACOPINO: Thank you.

17 BY MS. PERCY:

18 Q. Okay. Is there one code for the collocations  
19 of the two transmission lines and a separate  
20 code for collocating the transmission lines  
21 with the gas pipeline?

22 A. (Bradstreet) So, I would say there are codes  
23 that apply to the transmission line and there  
24 are codes that apply to the pipeline.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Okay. So, we have two codes for the  
2 transmission lines. We have a 320 and a 115,  
3 correct?

4 A. (Bradstreet) There's a 320 DC line and a 115 kV  
5 AC line, yes.

6 Q. And, so, there are codes that are specific to  
7 how you have to --

8 A. (Bradstreet) Design them. How we have to  
9 design those, yes.

10 Q. Thank you. And then there's another code that  
11 specifically speaks to the gas pipeline, is  
12 that correct?

13 A. (Bradstreet) The pipeline has its own code and  
14 regulation, yes.

15 Q. Okay. Great. So, what does the code  
16 specifically require for vertical and  
17 horizontal separation between the two  
18 transmission lines and the ground?

19 A. (Bradstreet) So, specific clearance  
20 requirements?

21 Q. Yup.

22 A. (Bradstreet) I don't have those in front of me,  
23 but I believe we provided those as part of a  
24 data request.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Okay. So, I can look there?

2 A. (Bradstreet) I believe so.

3 Q. Thank you. What does the code require  
4 regarding collocating these transmission lines  
5 with a 24-inch gas pipeline?

6 A. (Bradstreet) So, the code that really, I guess,  
7 would govern spacing in the right-of-way, I  
8 believe it states that we have to have a  
9 certain spacing away from our foundation  
10 excavation and the pipeline itself. I'm going  
11 from memory, but I believe it states  
12 "five feet".

13 Q. Is it the opinion of the Portland Natural Gas  
14 Pipelines that this -- the transmission lines  
15 can be safely collocated? Do you have an  
16 opinion from them?

17 A. (Bowes) We certainly, for the original  
18 installation, when they constructed in 1998,  
19 they felt there was sufficient space. So,  
20 we're doing an interference study at this time.  
21 And, ultimately, we'll present the results to  
22 the Portland Pipeline Company.

23 Q. Can you just help me with that a second?  
24 Because if you -- that was the original

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 pipeline, your conversation around the existing  
2 transmission towers that were there or, you  
3 know, the poles that are there, and where the  
4 pipeline actually sited itself, that was your  
5 conversation that you just referenced?

6 A. (Bowes) Well, it's not necessarily a  
7 "conversation". Conversations were certainly  
8 held. But there's a Right-of-Way Agreement,  
9 there's a Construction and Use Agreement, and  
10 there's an Access Agreement that grants  
11 Portland General Gas Company the rights to  
12 locate on our right-of-way.

13 Q. And, but going back to that agreement, initial  
14 agreement, did you foresee that you would have  
15 structures in different locations then?

16 A. (Bowes) So, it certainly didn't specifically  
17 contemplate that, but it contemplated continued  
18 use of both facilities on the right-of-way, and  
19 both could make modifications.

20 Q. Okay. It's a little hard to move that  
21 pipeline, don't you think?

22 A. (Bowes) It is not.

23 Q. It's not hard to move the pipeline?

24 A. (Bowes) It's very common to move pipelines.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Oh. Great. Do you have a signed agreement  
2 with Portland Natural Gas?

3 A. (Bowes) A signed agreement for what?

4 Q. On the collocation of lines and the pipeline?

5 A. (Bowes) Yes.

6 Q. Okay. And do you have an agreement about who  
7 and how monitoring of construction of the  
8 towers will be managed? So, leaping ahead to  
9 actual construction, do you have an agreement  
10 with Portland Natural Gas Pipeline?

11 A. (Bowes) There is a general Construction and Use  
12 Agreement that would cover either party doing  
13 construction within the right-of-way.

14 Q. And do you have regular conversations with  
15 Portland Natural Gas Pipeline around this,  
16 around the proposed transmission?

17 A. (Bowes) I would say no, not regular  
18 conversations.

19 Q. I got a little help, because I'm not being very  
20 clear. So, can we go back, Mr. Bowes, on the  
21 agreement that you have is -- with Portland  
22 Natural Gas Pipeline, that's an old agreement  
23 on the existing structures that are there, is  
24 that correct?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) So, it is an agreement from 1998, --

2 Q. Yes.

3 A. (Bowes) -- to be more precise. I would say  
4 that it covers the facilities that were on the  
5 site and proposed by Portland General at that  
6 time.

7 Q. Okay. And, so, you've had recent conversations  
8 with Portland Natural Gas about how you propose  
9 relocating those structures and installing new  
10 structures?

11 A. (Bowes) I don't know if we have or not.

12 Q. Don't you think that's important to have?  
13 Sorry.

14 A. (Bowes) I'll answer it. Yes, I do think it's  
15 important, when the time is right, and the  
16 interference study is complete, that would be  
17 the time we would go and have discussions with  
18 Portland General Gas Company or Natural Gas  
19 Company, sorry.

20 Q. Can you hang on to that thought? Because we're  
21 going to come back to that when we get to  
22 another set of questions that I have.

23 So, I understand you've submitted the  
24 preliminary plans. Do you anticipate providing

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 more detailed plans that show the gas pipeline  
2 and the structure placement to the SEC and to  
3 abutters?

4 A. (Bradstreet) Right now, I don't believe we're  
5 putting together a revised set of drawings for  
6 that, no.

7 Q. Okay. Have you finalized your precise design  
8 placement and height of every new structure  
9 proposed within the 150-foot right-of-way in  
10 Stark with the gas pipeline?

11 A. (Bradstreet) Yes.

12 Q. Okay. So, the visibility assessments, I'm  
13 going to switch, and then Attorney Cunningham  
14 is going to help, step in. But the visibility  
15 assessments are based on an average tower  
16 height of 95 feet, is that correct, through the  
17 right-of-way in Stark?

18 A. (Bradstreet) The visibility -- specifically,  
19 can you tell me what visibility analysis you're  
20 referring to? The stuff that was provided by  
21 us or by others?

22 Q. By your expert, Terry DeWan.

23 A. (Bradstreet) So, that's based out of the exact  
24 heights that we're proposing based on the

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 permit drawings.

2 Q. And, so, was it an average tower height --

3 A. (Bradstreet) It was the exact height that we're  
4 proposing.

5 Q. Oh. Okay. Great. To meet code, line  
6 separation requirements, gas pipeline to wire  
7 separations, ground separation wire height and  
8 station location, might the towers need to be  
9 higher?

10 A. (Bradstreet) No.

11 Q. So, if you run into problems from conditions on  
12 the ground, what options, other than raising  
13 the height of the towers, do you have?

14 A. (Bradstreet) What conditions on the ground are  
15 you speaking about?

16 Q. Well, we had a meeting with Eversource  
17 representatives in March, and they referenced  
18 that conditions on the ground require some --  
19 could require some modifications to the tower  
20 heights. They did say that they didn't  
21 anticipate -- so, they said "conditions on the  
22 ground". Eversource representatives are the  
23 people who brought up "conditions on the  
24 ground".

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bradstreet) okay. So, I'll just explain  
2 really quick what's in our design that we're  
3 submitting, and maybe some things that could  
4 potentially cause minor changes. But our  
5 design right now is based off of a survey,  
6 LIDAR survey. It's a very accurate survey.  
7 And, so, we don't anticipate anything on the  
8 ground that would change our clearance  
9 requirements. I guess, in construction,  
10 sometimes it's more common for a shift in the  
11 structure location due to like a boulder or  
12 something on the ground that, when they get  
13 ready to drill, they might make a minor change  
14 for. At that point, generally, we don't have  
15 the option to increase the structure heights,  
16 because the structures are already on-site.  
17 So, I guess I would say it would be a very rare  
18 condition for the heights to change at this  
19 point.

20 Q. In your conversations with the Portland Natural  
21 Gas Pipeline, prior to starting any  
22 construction, would you -- do you anticipate  
23 that there would be any conditions on the  
24 ground that could pop up then that would alter

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 your height limits?

2 A. (Bradstreet) I don't believe there's anything  
3 that would impact heights.

4 Q. So, you're committing to the tower heights that  
5 you submitted in your Application?

6 A. (Bradstreet) I think what we've proposed in the  
7 design is what we plan to build, yes.

8 Q. And, so, there wouldn't be any change in that?

9 A. (Bradstreet) I guess I can't say there would be  
10 absolutely zero change, but I don't see  
11 anything that would cause change.

12 Q. So, I'm trying to think when -- we had, in the  
13 meeting that representatives of the Percy  
14 Summer Club had with Eversource, they  
15 referenced that there could be anywhere from a  
16 3-foot change in the tower heights along that  
17 right-of-way?

18 A. (Bradstreet) So, that might be in reference to  
19 the final. So, lattice structures are still in  
20 the design phase of determining height ranges  
21 or I guess where the height break points are.  
22 So, what I'm getting at there is there -- this  
23 is going to get kind of technical.

24 Q. That's all right.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bradstreet) But there's different leg  
2 extensions that can be used to change the  
3 height of the structures themselves. And, when  
4 that's finalized, there may be a 2- to 3-foot  
5 change in what we're proposing, just based off  
6 of the material that can be constructed  
7 on-site. In general, a lattice structure, I  
8 guess, does not have individual feet breakdown.  
9 So, it's not like we would have an 80-foot, an  
10 81-foot, an 82-foot structure. It might mean  
11 that we have a 79-foot, an 83-foot, an 87-foot  
12 structure. So, right now, the project design  
13 is broken down to the nearest five feet. And,  
14 so, if we propose an 85-foot structure, and  
15 when the leg extension designs are complete, it  
16 might mean that we go to an 83-foot structure  
17 or it might mean that we go to an 87-foot  
18 structure, just depending on how it breaks  
19 down.

20 Q. Great. That's helpful. But it also raises  
21 some concerns, where the plans that you -- that  
22 have been submitted have designated heights  
23 that are attached to them. And, so, we, as  
24 intervenors, are looking at plans with

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 height -- the highest amount -- well, the  
2 estimated amount that the tower's structure --  
3 the height would be. And you're saying that  
4 could change?

5 A. (Bradstreet) I guess I would say, on the final  
6 structure design, there could be some changes  
7 on the lattice structures, correct.

8 Q. Okay. And just going back to the impact of all  
9 the visibility impact statements that were done  
10 were based on recommendations of tower heights,  
11 is that correct?

12 A. (Bradstreet) They use our exact proposed  
13 heights, yes.

14 Q. But those could change. So, the visibility  
15 impacts could change?

16 A. (Bradstreet) I guess I'm not probably the right  
17 person to speak if a 2-foot change is a  
18 noticeable change. But I would say the input  
19 values could change, yes.

20 Q. Okay. How are abutters informed when you need  
21 to make adjustments outside of your submitted  
22 Application?

23 A. (Bowes) Adjustments to heighth or just --

24 Q. Yes. Any adjustments.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) I guess we would have a conversation  
2 with the abutters. I don't think there's a  
3 formal process at this point.

4 Q. So, you wouldn't -- if you were making changes  
5 to the approved plan, you would not -- you  
6 would have conversations with the abutters, but  
7 there isn't a formal agreement or you could  
8 just make changes and not talk to abutters?

9 A. (Bowes) I believe there's no formal process at  
10 this point to relocate a structure a few feet  
11 or change the leg extensions.

12 Q. Okay. Would it be helpful to have a formal  
13 agreement?

14 A. (Bowes) Certainly something the Project would  
15 consider.

16 MS. PERCY: Okay. So, I'm going to  
17 leave my other questions and ask --

18 CHAIRMAN HONIGBERG: Mr. Cunningham,  
19 it sounds like you're up.

20 MS. PERCY: Thanks very much.

21 MR. CUNNINGHAM: Hi. My name is Art  
22 Cunningham. I'm an attorney. I represent  
23 Kevin Spencer and Mark Lagasse. Kevin and Mark  
24 are building a lodge, a tourist lodge at a

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           campground. The right-of-way and the pipeline  
2           run right behind their lodge. And we have some  
3           questions about the pipeline.

4 BY MR. CUNNINGHAM:

5 Q. I listened carefully to Susan Percy's  
6       questions, and I'm completely unclear when you  
7       expect to have plans and specifications for  
8       your two new lines with respect to the  
9       pipeline. When can we see those plans and  
10      specifications and when will this Committee be  
11      able to see those plans and specifications and  
12      when can we examine those plans and  
13      specifications for safety?

14 A. (Bowes) I believe all the plans and  
15      specifications have been filed.

16 Q. I'm talking about plans and specifications that  
17      can provide us assurances that the installation  
18      of this high voltage DC line and the relocated  
19      AC line will be safe?

20 A. (Bowes) So, you're looking for plans or  
21      assurances? I'm not clear.

22 Q. I'm looking for plans and specifications that  
23      we can have somebody review, including this  
24      Committee, to ensure that the installation of

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           these high voltage lines, next to a 24-inch  
2           pipeline will be safe?

3   A.    (Bowes) You have those plans today.

4   Q.    Let's talk a little bit about the pipeline  
5           itself. What are the dimensions of the  
6           pipeline?

7   A.    (Bradstreet) I don't have the specifics in  
8           front of me. But, as you said, I believe it's  
9           a 24-inch pipeline.

10   Q.   And do you know what the pressure on the  
11          pipeline is?

12   A.    (Bradstreet) I do not.

13   Q.    If I told you it was 1,440 pounds per square  
14          inch, would you disagree with that?

15   A.    (Bradstreet) I have no reason to disagree. It  
16          doesn't pertain to our design, so --

17   Q.    It doesn't pertain to your design?

18   A.    (Bradstreet) The pressure itself doesn't change  
19          how we would design around it.

20   Q.    Well, does the pressure affect the issue of  
21          safety?

22   A.    (Bradstreet) I believe gas pipelines are all  
23          lumped into the same category as gas pipelines,  
24          regardless of pressure.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. I guess we can compare to pumping up your  
2 tires. You pump up your tires maybe at 40  
3 pounds per square inch?

4 A. (Bradstreet) In some cases, yes.

5 Q. Could you describe for us and the Committee  
6 what the interactions between high voltage  
7 lines, both DC lines and AC lines, and  
8 hypothetical gas pipelines are. What are the  
9 interactions? Can you tell the Committee that?  
10 Can you tell the intervenors that?

11 A. (Bradstreet) So, I guess there are -- there's  
12 normally three major kinds of interactions that  
13 you're speaking of. I'm assuming you're  
14 talking about the electrical interactions?

15 Q. Well, I'm asking you to describe them.

16 A. (Bradstreet) Okay. I'll describe the  
17 electrical interactions. Normally, there could  
18 be a "capacitive coupling" is what one is  
19 referred to, in which a voltage could  
20 potentially be induced on a parallel pipeline.  
21 Normally, that's an AC issue.

22 I guess, I don't have my cheat sheet in  
23 front of me, so let me see if I can get this  
24 all right. So, capacitive coupling. You could



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           have a condition, if there was a lightning  
2           strike, potentially it could increase the  
3           voltage of the soil, and there could be a  
4           stress across the coating of the pipeline.  
5           Again, that's another thing that we will check  
6           with this interference study that Ken has  
7           referred to. And, then, there's a third type  
8           of coupling, that is very uncommon, and is  
9           normally tied to an AC line, and I can't  
10          remember the term off the top of my head,  
11          but --

12   Q.    Are you familiar with the term "electrostatic  
13          coupling"?

14   A.    (Bradstreet) Yes.

15   Q.    And what's that?

16   A.    (Bradstreet) I believe that's the capacitive  
17          coupling that I was referring to in the first  
18          description, where a voltage could be induced  
19          on a parallel pipeline.

20   A.    (Bowes) The third and final type of  
21          interference would be "magnetic induction".

22   Q.    Electromagnetic induction?

23   A.    (Bowes) Correct.

24   Q.    What impacts do those effects have on gas

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 pipelines?

2 A. (Bradstreet) So, in some cases, they could  
3 induce a voltage on the pipeline that would be  
4 at a different potential than the ground. So,  
5 there could be a concern that, if a worker was  
6 working on the pipeline, if there was an  
7 aboveground appurtenance from the pipeline,  
8 that somebody could make contact with the  
9 pipeline that is at a different voltage than  
10 the ground itself, and could result in that  
11 person being shocked.

12 Q. So, that's a personal safety issue?

13 A. (Bradstreet) Yes.

14 Q. And can that coupling or electromagnetic  
15 interaction affect the integrity of the  
16 pipeline?

17 A. (Bradstreet) I guess I believe, in most cases,  
18 the major concern with electric lines is  
19 personal safety. I'm not aware of a condition  
20 where there could be concern for degradation to  
21 the pipeline, other than if we were to impact  
22 their cathodic protection system, which is  
23 there to make sure that the pipeline itself  
24 doesn't corrode. But, again, that's part of

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 the interference analysis and working with the  
2 pipeline company.

3 Q. Okay. You keep referring to the "interference  
4 analysis". You say you have the plans and  
5 specs. When do we get to see the interference  
6 analysis?

7 A. (Bradstreet) I believe we stated earlier this  
8 month in the sessions that we would provide  
9 that when it's complete, and it's not complete  
10 at this time.

11 Q. And when can we expect to see that?

12 A. (Bradstreet) In the near term, in the next  
13 month or two, probably.

14 Q. And will you come back so we can look at that  
15 in the presence of the Committee and assess its  
16 integrity?

17 MR. NEEDLEMAN: Objection.

18 CHAIRMAN HONIGBERG: Grounds?

19 MR. NEEDLEMAN: They're here now, and  
20 they're here to answer the questions. And they  
21 have already represented that the information  
22 they believe is necessary to assess this issue  
23 is before the Committee.

24 CHAIRMAN HONIGBERG: Mr. Cunningham.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 MR. CUNNINGHAM: I'm interested in  
2 this corrosion issue, Mr. Chairman. And we  
3 haven't gotten an adequate response yet from  
4 the construction panel on the ability of high  
5 voltage electric lines to corrode steel  
6 pipelines. And I'm sure that that's in the  
7 interference study.

8 CHAIRMAN HONIGBERG: I believe the  
9 question you asked was a "when" question, and  
10 I'm not sure how that relates to the argument  
11 you just made. So, the objection is sustained.

12 I suspect there are questions you can  
13 ask them that will get you answers to what you  
14 just said you're interested in.

15 MR. CUNNINGHAM: I can do a better  
16 job, Mr. Chairman. Thank you.

17 BY MR. CUNNINGHAM:

18 Q. Does your interference study assess the issue  
19 of corrosion, induced corrosion in steel  
20 pipelines by high voltage electric lines?

21 A. (Bradstreet) That is one of the items that the  
22 study is looking at, yes.

23 Q. And, so, when we get the interference study,  
24 you will come back so we can assess that in

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 front of the -- assess that study in front of  
2 the Committee, can we not?

3 MR. NEEDLEMAN: Same objection.

4 CHAIRMAN HONIGBERG: Mr. Cunningham,  
5 we're in a process where the Company has  
6 submitted information. If you want to make an  
7 argument ultimately that what they have  
8 submitted is inadequate or insufficient for the  
9 Committee to evaluate the things it needs to  
10 evaluate under the statute, you're free to make  
11 that argument.

12 MR. CUNNINGHAM: Okay. All right.  
13 Fair enough, Your Honor.

14 BY MR. CUNNINGHAM:

15 Q. So, to repeat the question, the interference  
16 study, when it arrives, will give an  
17 explanation of the corrosive effects of  
18 electric currents on steel pipelines, will it  
19 not?

20 A. (Bradstreet) It will address the issue, yes.

21 Q. And what can you tell us today about that  
22 issue?

23 A. (Bradstreet) That we don't believe it will be  
24 an issue that comes up as the study is

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 completed. As I stated, it's very common for  
2 transmission lines and gas pipelines to be  
3 collocated in the same corridor. If an issue  
4 is presented in this analysis, we will work  
5 with the pipeline to figure out what the best  
6 mitigation is. If it's a change in their  
7 cathodic protection system, that would be  
8 something that we would work with them to  
9 ensure that everything is safe at the end of  
10 the day.

11 Q. And, yes, we'll be able to get to see that,  
12 right?

13 A. (Bradstreet) I mean, I believe we will provide  
14 it to everybody for review.

15 Q. And is there a difference between the electric  
16 currents that come from AC lines and DC lines?

17 A. (Bradstreet) Yes. They're different.

18 Q. Explain that difference to us please.

19 A. (Bradstreet) So, an AC line has alternating  
20 current, that it's a sinusoidal waveform.

21 *[Court reporter interruption.]*

22 **BY THE WITNESS:**

23 A. (Bradstreet) So, the AC line has alternating  
24 current in a sinusoidal waveform. A DC line

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           has direct current, which is a constant  
2           current, it doesn't change polarity.

3 BY MR. CUNNINGHAM:

4 Q.    Yes.   Okay.   And which is more dangerous to a  
5       steel pipeline?

6 A.    (Bradstreet) I believe they're both something  
7       that wants to be considered as part of the  
8       pipeline.   And a typical cathodic protection  
9       system utilizes DC current.   So, I would say,  
10      depending on what your concern is, they're both  
11      something that needs to be evaluated.

12 Q.    And will you address that difference, if there  
13      is one, in your study?

14 A.    (Bradstreet) Yes.

15 Q.    In your current study?

16 A.    (Bradstreet) The DC line is evaluated  
17      differently than the AC line, correct.

18 Q.    And that will be explained in your interference  
19      study, will it not?

20 A.    (Bradstreet) What will be explained?

21 Q.    The difference between AC and DC corrosive  
22      effects on pipelines.

23 A.    (Bradstreet) I guess I would say "yes".

24 Q.    And you talked about "cathodic protection".

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           What is that?

2   A.     (Bradstreet) So, the cathodic protection is a  
3           system that the pipeline design would have come  
4           up with, again, when it was originally put in  
5           the AC corridor, to make sure that they didn't  
6           have any concern with corrosion on their  
7           pipeline. It's a system that basically  
8           protects their pipeline from corrosion.

9   Q.     And are you telling this Committee and the  
10          intervenors that that system exists on the 1998  
11          pipeline?

12   A.     (Bradstreet) There is some sort of protection,  
13          yes.

14   Q.     And have you looked at it?

15   A.     (Bradstreet) I have specifically not, no.

16   Q.     Has anybody from Eversource looked at it?

17   A.     (Bowes) When you mean "look at it", looked at  
18          the design of it or looked at the --

19   Q.     Looked at the condition of the so-called  
20          "cathodic protection" on the existing 20 year  
21          old pipeline?

22   A.     (Bowes) I have not.

23   Q.     And have you discussed the quality of that  
24          cathodic protection with the pipeline people?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bradstreet) I have not, no.

2 A. (Bowes) No, I have not.

3 Q. And what's the life expectancy of that kind of  
4 cathodic protection?

5 A. (Bradstreet) As long as the pipeline is in  
6 service, it will have some sort of protection.

7 Q. But you can't tell us what it is or what kind  
8 of condition it's in?

9 A. (Bradstreet) No. I can't.

10 A. (Bowes) So, I can tell you what type of system  
11 it is, but I cannot tell you the condition of  
12 it.

13 Q. Well, why don't you tell us that much.

14 A. (Bowes) It's impressed current system they use,  
15 along with an anode bed.

16 Q. And isn't it a known fact that cathodic  
17 protection on pipelines breaks down with time?

18 A. (Bowes) Not if it's properly maintained, no.

19 Q. But you don't know that?

20 A. (Bowes) It's a requirement of the pipeline  
21 company to maintain their cathodic protection  
22 systems and provide that information to the  
23 pipeline safety authorities or regulators.

24 Q. And that's what you're telling us, but you

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 don't know?

2 A. (Bowes) I have not seen their data, no.

3 Q. All right. And the anodic protection, is that  
4 like they install a less noble metal along the  
5 pipeline, and, when the electric current hits  
6 it, instead of corroding the pipeline, it  
7 corrodes the so-called "less noble metal", is  
8 that how that works?

9 A. (Bowes) I would say, in layman's terms, yes.  
10 It's a sacrificial type of system that doesn't  
11 require maintenance. And the anodes become the  
12 sacrificial element.

13 Q. And the coating on the pipeline itself, what's  
14 it made out of?

15 A. (Bowes) Specific materials?

16 Q. Yes.

17 A. (Bowes) I do not know. Typically, it's a  
18 plastic material.

19 Q. And you don't know the condition of that  
20 material as of this point?

21 A. (Bowes) Specifically, I do not, no.

22 Q. Are you familiar with the October 2015 INGAA  
23 Foundation Assessment of Corrosive Effects of  
24 High Voltage Electric Lines on Steel Pipelines?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) Not specifically, but I'd be glad to  
2 review it.

3 Q. And do you know what INGAA is?

4 A. (Bowes) Maybe you could elaborate?

5 Q. It's a group that assesses the collocation of  
6 electric lines, high voltage electric lines and  
7 steel pipelines. It's an industry group.

8 A. (Bowes) Again, I couldn't hear what you said  
9 when you said the acronym. I don't know what  
10 it stands for.

11 Q. INGAA Foundation. Are you familiar with that  
12 group?

13 A. (Bowes) I'm familiar with NEES, are they a  
14 portion of that? Again, I'm just not familiar.  
15 I can't understand what the acronym means.  
16 Maybe if you describe what the actual  
17 abbreviation means, I might recognize it.

18 Q. It doesn't give -- it's not an acronym. INGAA  
19 Foundation, and this is a study dated  
20 October 2015, "The Criteria for Pipelines  
21 Coexisting with Electric Power Lines". Are you  
22 familiar with that study?

23 A. (Bowes) Not specifically, I am not.

24 Q. And I'll quote just briefly from the Executive

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           Summary: "Collocated pipelines, sharing,  
2           paralleling, or crossing high voltage power  
3           lines right-of-way, may be subject to  
4           electrical interference through electrostatic  
5           coupling, electromagnetic inductive, and  
6           conductive effects. If the interference  
7           effects are high enough, they may pose a safety  
8           hazard to personnel or the public, or may  
9           compromise the integrity of the pipeline." I  
10          guess you and I can agree with that?

11                   MR. NEEDLEMAN: I'm going to object.  
12           I think, if he's going to be asked questions  
13           about a document, he should be able to see the  
14           document.

15                   CHAIRMAN HONIGBERG: Mr. Cunningham,  
16           is that a document that you have in your  
17           possession that you can make an exhibit and  
18           share with the witnesses, so they have -- I  
19           don't even think they know -- it's pretty clear  
20           that they don't know the organization that  
21           authored that document or anything about it.

22                   Maybe you just want to ask them if  
23           they agree with that statement, --

24                   MR. CUNNINGHAM: That's what I

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 thought I asked them.

2 CHAIRMAN HONIGBERG: -- and then you  
3 can prove it up at some point.

4 MR. CUNNINGHAM: I thought that's  
5 what I asked, Mr. Chairman.

6 CHAIRMAN HONIGBERG: I think you said  
7 something -- and, after you read it, I think  
8 your question was something like "I think we  
9 can agree on that statement". But I think you  
10 need to introduce it a little bit more slowly.  
11 "Gentlemen, do you agree with the following  
12 statement?" How about doing it that way?

13 MR. CUNNINGHAM: Fair enough, Mr.  
14 Chairman. I'll read it again.

15 BY MR. CUNNINGHAM:

16 Q. "Collocated pipelines, sharing, paralleling, or  
17 crossing high voltage power lines right-of-ways  
18 may be subject to electrical interference from  
19 electrostatic coupling, electromagnetic  
20 inductive, and conductive effects. If the  
21 interference effects are high enough, they may  
22 pose a safety hazard to personnel or the  
23 public, or may compromise the integrity of the  
24 pipeline."

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 CHAIRMAN HONIGBERG: And does the  
2 panel agree with that statement?

3 WITNESS BOWES: Yes.

4 WITNESS BRADSTREET: Yes.

5 BY MR. CUNNINGHAM:

6 Q. And, so, we can be assured then, in your study,  
7 that you'll allay our fears about the issue  
8 raised by this INGAA study?

9 A. (Bradstreet) The items that you listed off are  
10 specifically why we are performing the  
11 analysis, yes.

12 Q. I'll look forward to seeing that. Thank you.  
13 I have a few more questions. Counsel for the  
14 Public reminds me that you indicated that the  
15 study that you're discussing, the so-called  
16 "interference study", would be ready in May.  
17 This is May 31st.

18 A. (Bradstreet) Yes. We do not have it completed  
19 yet. The target date was May. I believe,  
20 within the next few weeks, it should be  
21 completed, but it's not complete today.

22 Q. Are there other potential interactions between  
23 the pipeline and high voltage electric lines?

24 A. (Bowes) Yes, during construction. I think

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Mr. Bradstreet talked about physical separation  
2 requirements. And, during construction, there  
3 could be impacts to the pipeline.

4 Q. One of the things that my clients are concerned  
5 about, and I'm sure all members -- any member,  
6 any intervenor in this case, is about blasting.  
7 I know your Alteration of Terrain Permits  
8 indicates that there will be blasting during  
9 this Project. But the Alteration of Terrain  
10 Permit application does not provide any  
11 specificity on where that blasting will take  
12 place or what impacts that blasting may have on  
13 intervenors in this case. Is that a correct  
14 statement?

15 A. (Bowes) I think it's -- no, I don't believe it  
16 is.

17 Q. I'm looking at the application for State  
18 Department of Environmental Services Alteration  
19 of Terrain Permit for the Northern Pass  
20 Transmission Project prepared by Normandeau  
21 Associates, Paragraph 9(b). And the question  
22 is posed: "Will blasting of bedrock be  
23 required?" And the answer was "yes". You're  
24 the construction panel. Do you agree with that

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 statement by Normandeau Associates?

2 A. (Bowes) Yes.

3 Q. And can you agree with me that you've not  
4 indicated where that blasting may take place?

5 A. (Bowes) I think we've indicated two locations  
6 where it will.

7 Q. Well, what I'm particularly interested in is  
8 about the foundations for the high voltage  
9 power lines through the Stark/Dummer/  
10 Northumberland --

11 A. (Bowes) We have not identified any locations in  
12 that geographic area where blasting is  
13 required.

14 Q. Will blasting be required for the foundations  
15 for the DC power line?

16 A. (Bowes) It may be required for the DC or AC  
17 power line.

18 Q. And have you identified which areas or which  
19 poles or towers will require blasting?

20 A. (Bowes) We have not.

21 Q. Now, according to the data requests submitted  
22 by the Dummer/Stark/Northumberland intervenors,  
23 Data Request 2 indicates there will be 159  
24 relocated 115 kV towers. Could you agree with

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           that?

2   A.     (Bradstreet) So, specifically where? I mean, I  
3           don't believe that's correct for the Project.  
4           Where specifically in the Project are you  
5           asking about?

6   Q.     That's the data request from Dummer, Stark, and  
7           Northumberland?

8   A.     (Bradstreet) That sounds correct.

9   Q.     One hundred fifty-nine (159) relocated 115 kV  
10          towers. How many of those 159 towers will  
11          require blasting to set the foundations?

12  A.     (Bradstreet) As consent of this plan, I don't  
13          believe we've identified any that we know will.

14  Q.     Is it your testimony that none would require  
15          blasting?

16  A.     (Bradstreet) That's not what I said.

17  Q.     What did you say?

18  A.     (Bradstreet) That right now we have not  
19          identified any that will absolutely require  
20          blasting.

21  Q.     And will that issue be considered in your  
22          interference study?

23  A.     (Bradstreet) No.

24  Q.     And does blasting have an impact on pipelines?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) Yes.

2 Q. And what is that impact?

3 A. (Bowes) Well, obviously, it could damage either  
4 the pipeline or the surrounding material around  
5 the pipeline.

6 Q. And how could that -- how does that happen?

7 A. (Bowes) So, when the blasting, either the  
8 excavation for the blasting, to set the  
9 charges, or the charges themselves could impact  
10 the integrity of the pipeline.

11 Q. And would that impact the actual physical  
12 integrity of the steel pipeline by vibration or  
13 how?

14 A. (Bowes) I guess, vibration, if that's the word  
15 you're choosing, yes, that would be a method of  
16 impact to the pipeline.

17 Q. Well, my question is then, with respect to the  
18 115 kV towers, 159 of them, how close will  
19 those blast holes be to the pipeline, in terms  
20 of distance?

21 A. (Bowes) So, again, we have not identified any  
22 blast holes at this point or any blasting  
23 required.

24 Q. Well, when do we get to know that?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) When the geotech results would indicate  
2 whether blasting has the potential. So, when  
3 we actually do the core borings.

4 Q. Well, when do we get to know that?

5 A. (Bowes) That would be later in the construction  
6 phase, prior to -- prior to construction.

7 Q. So, my clients and the intervenors in this case  
8 can't know that while this Committee is  
9 deliberating?

10 A. (Bowes) So, we've not identified any locations  
11 where blasting is required. So, I guess that  
12 means they would not know that at this point.

13 Q. And Data Request 1-7, Dummer/Stark/  
14 Northumberland, indicates that there will be  
15 161 foundations that need to be constructed for  
16 the DC portion of the Project. Have you  
17 identified any blasting required for the  
18 foundations?

19 A. (Bowes) We have not, for the DC portion of the  
20 line.

21 Q. So, you haven't done it for AC or DC?

22 A. (Bowes) That is correct.

23 Q. Can you tell me the distance in feet of the DC  
24 foundation construction from the high pressure

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 gas pipeline?

2 A. (Bradstreet) It varies. I would say the  
3 closest that we would get to the pipeline  
4 itself I believe is around ten feet.

5 Q. Ten feet?

6 A. (Bradstreet) I believe so. I'm going off --

7 *[Court reporter interruption.]*

8 **BY THE WITNESS:**

9 A. (Bradstreet) I'm going off of memory.

10 BY MR. CUNNINGHAM:

11 Q. Just as a parenthetical, if I told you, in  
12 discussions I had with the Portland Natural Gas  
13 Pipeline folks, they told me that the existing  
14 H-frame 115 kV lines had to be at least 60 feet  
15 from the pipeline, would you agree with that?

16 A. (Bradstreet) No.

17 Q. You would not -- you would not agree what the  
18 Portland Natural Gas Pipeline people told me?

19 A. (Bradstreet) I guess I don't know who told you  
20 specifically. But the agreement -- the  
21 agreement that Eversource has for the easement  
22 provides us the opportunity to move as close as  
23 four feet from the pipeline, I believe.

24 Q. So, you're going to construct these foundations

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 within four feet of the pipeline?

2 A. (Bradstreet) That's not what I said. I said  
3 the easement language I believe was written to  
4 allow flexibility that, if it would be  
5 required, it could get as close to four feet.

6 Q. When do we get to see this agreement between  
7 you and Portland Natural Gas Transmission  
8 System?

9 MR. NEEDLEMAN: Objection. The  
10 agreement could have been requested during  
11 discovery. In fact, I think it was provided.

12 CHAIRMAN HONIGBERG: So, you're  
13 representing that the agreement was provided in  
14 discovery. Mr. Roth?

15 MR. ROTH: The agreement between --  
16 the existing agreement between the gas pipeline  
17 and PSNH was provided and was submitted as an  
18 exhibit by Counsel for the Public, and I'm  
19 trying to locate it right now.

20 CHAIRMAN HONIGBERG: Mr. Cunningham,  
21 do you have questions about that agreement or  
22 are you just interested in its existence?

23 MR. CUNNINGHAM: I'm interested in  
24 its existence and its availability.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 CHAIRMAN HONIGBERG: Well, I think it  
2 exists and is available.

3 MR. CUNNINGHAM: Fine.

4 BY MR. CUNNINGHAM:

5 Q. Now, I want to talk a little bit more about  
6 blasting in the foundation. I know this was  
7 testified to earlier, I can't remember when or  
8 by who, what number of cubic yards will have to  
9 be removed to create a foundation for the  
10 relocated 115 kV line?

11 A. (Bowes) I think, at this point, we've not  
12 identified any material that needs to be  
13 blasted.

14 Q. Well, I'm talking about the cubic yards of  
15 material that have to be removed?

16 A. (Bowes) Maybe I don't understand the question.  
17 You mean the actual foundation drilling?

18 Q. Well, let me ask it easier. What's the size of  
19 the foundation for the relocated 115 kV lines?

20 A. (Bradstreet) I think, in the DOE permit, we  
21 provided an estimated range. I think it was  
22 approximately 5 feet in diameter, and I think  
23 around 20 feet in depth. I don't know, I'd  
24 have to run some numbers to figure out exactly

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           what that volume is.

2   Q.    Okay.  And if it has to be blasted, how will  
3           that work?

4   A.    (Kayser) Well, the blasting contractor would  
5           determine what size and type of charge they  
6           need to excavate a hole of that size.  So, they  
7           would do some probing, determine what the  
8           nature of the rock is, and then they would  
9           determine their blast from that.

10   Q.   And can you explain how that's done?  What they  
11          would be looking for?

12   A.    (Kayser) Again, what they look at is what type  
13          of rock, what type of rock, how hard is the  
14          rock, and then they will determine their blast  
15          from that.  I'm not an expert on how they come  
16          up with all their blast.  But they look at the  
17          rock, and what they need to blast out, and then  
18          determine it from that.

19   Q.    Okay.  But, as of this date, you don't know how  
20          that will be done?  How many times that will be  
21          done?

22   A.    (Kayser) That's correct.  As Mr. Bowes stated,  
23          when they do the geotech, that will determine  
24          where they need to do blasting based on that

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 information.

2 Q. And, when the blasting is actually done, can  
3 you explain how that works?

4 A. (Kayser) I believe that we went through  
5 blasting in my prefiled testimony, or, in my  
6 supplemental prefiled testimony, we addressed  
7 some blasting. So, each of the contractors --  
8 the blasting contractor will make sure the area  
9 is safe. They go through to come up with  
10 blasting plans. They do pre-blast surveys.  
11 And, then, during that time, they will make  
12 sure the area is safe. They conduct the  
13 blasting, and then they will conduct post-blast  
14 surveys, if necessary.

15 Q. And will that pre-blast survey include an  
16 assessment of groundwater?

17 A. (Kayser) As we stated, it would be, if there  
18 are any wells within -- I'd have to look at my  
19 testimony, but I believe it's within 500 feet  
20 of the blast, if there are any wells, they will  
21 do the testing that is required through the New  
22 Hampshire DES.

23 Q. And do you know how far away from any potential  
24 blast holes my clients' lodge is?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Kayser) Not specifically, I do not.

2 Q. Have you done an inventory of any of the  
3 residences or properties within 500 feet of  
4 these power lines and potential blasted  
5 foundations? Do you have that information  
6 anywhere in your Application?

7 A. (Kayser) We know of the res -- we know of the  
8 structures that are near the corridor. So, as  
9 you determine where the blasting is, then they  
10 would then do the surveys of those specific  
11 structures that would be affected by that.

12 Q. But we don't have that information in front of  
13 us today and before this Committee?

14 A. (Kayser) As Mr. Bowes said, we do not know  
15 exactly where we're going to be blasting.

16 Q. And why is it important to do an assessment of  
17 groundwater?

18 A. (Kayser) Of the wells?

19 Q. Pre-blast assessment of groundwater?

20 A. (Kayser) Because, if the -- with the vibration,  
21 that could affect the well casing or have some  
22 particles in the wells. So, that's what the  
23 reason for that. The environmental committee  
24 may have more information on that. They're the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 experts on that.

2 Q. And blast material itself can affect  
3 groundwater, can it not?

4 A. (Kayser) I do not know the answer to that  
5 question.

6 Q. Do you know what "ANFO" is?

7 A. (Kayser) No.

8 Q. Does anybody on this construction panel know  
9 what ANFO is?

10 A. (Bowes) I do not.

11 Q. "ANFO" is ammonium nitrate, it's fertilizer and  
12 fuel oil that's used for blasting. And does  
13 anybody on this construction panel know how  
14 ANFO is inserted into potential blast holes?

15 A. (Bowes) I do not.

16 Q. And, if I told you that you drill a hole, and  
17 you tamp or pump the ANFO into the blast hole,  
18 would you agree with me?

19 A. (Bowes) I do not know.

20 Q. So, you can't explain to the Committee the  
21 potential dangers to groundwater from the use  
22 of ANFO to blast?

23 A. (Bowes) I think that's an accurate statement.

24 We do not typically do blasting for foundations

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 for transmission towers. In fact, I know we  
2 have several active projects going on right now  
3 in New Hampshire, none of them require  
4 blasting. So, it's a fairly unusual event.  
5 For substations and, you know, large amounts of  
6 rock, we've identified two locations. So, I  
7 think it would be a rare case where we would  
8 use blasting on this Project for transmission  
9 foundations.

10 Q. But we don't know that?

11 A. (Bowes) That is true.

12 Q. And one of the -- let me explain something.

13 One of the components of ANFO, ammonium  
14 nitrate, is nitrates. Do you know what nitrate  
15 is in groundwater?

16 A. (Bowes) It's probably a question better posed  
17 for the environmental panel. I do not know.

18 Q. All right. If nitrate gets in groundwater from  
19 blasting, it causes blue babies. Does any of  
20 you know that?

21 A. (Bowes) Again, as I said, I think it's probably  
22 a question better addressed to the  
23 environmental panel.

24 Q. Well, you're the construction panel, Mr. Bowes.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 I would think you would understand the  
2 implications and the dangers of blasting in  
3 groundwater -- next to groundwater?

4 MR. NEEDLEMAN: Objection.

5 CHAIRMAN HONIGBERG: Sustained. You  
6 don't really need to argue with these witnesses  
7 about who they are and what they know. Ask  
8 them questions. If they don't know, they'll  
9 tell you. And you can use that however you  
10 want.

11 MR. CUNNINGHAM: I don't have any  
12 further questions, Mr. Chairman.

13 CHAIRMAN HONIGBERG: All right. Next  
14 up is the Whitefield/Bethlehem abutters.  
15 Mr. Van Houten.

16 (Brief off-the-record discussion  
17 ensued.)

18 MR. VAN HOUTEN: Hi. My name is  
19 David Van Houten. I'm a intervenor from  
20 Bethlehem. The Whitefield to Bethlehem  
21 Intervenor Group legal team has no money and  
22 less experience. So, please bear with us if  
23 it's a little sketchy here.

24 BY MR. VAN HOUTEN:

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. I own land in Bethlehem that is crossed by the  
2 existing PSNH corroder. Bethlehem has been a  
3 popular resort town for over a century due to  
4 the scenary, clean air, and quiet pace of life.  
5 We do not have one stoplight --

6 CHAIRMAN HONIGBERG: Mr. Van Houten,  
7 if you're going to read, you need to read  
8 slowly.

9 MR. VAN HOUTEN: Sorry.

10 CHAIRMAN HONIGBERG: And, if you're  
11 going to read, it would be better if you're  
12 reading questions, rather than statements.

13 MR. VAN HOUTEN: They're coming.  
14 They're coming.

15 CHAIRMAN HONIGBERG: Well, I hope  
16 they're coming soon.

17 MR. VAN HOUTEN: They certainly are.  
18 We okay so far?

19 MR. PATNAUDE: Go ahead.

20 BY MR. VAN HOUTEN:

21 Q. We do not have one stoplight in town, and we  
22 like it that way. So, please refer to Exhibit  
23 DWBA 15 [WBA 15?], which is what I have up on  
24 the screen here. It's just a Google map

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 satellite image of the northern end of

2 Bethlehem. Can you see my cursor?

3 A. (Bowes) Yes. Yes, I can. It's on Route 302.

4 Q. Right. So, it's pointed at Miller Pond right  
5 now, which is the southern end of the corridor.

6 You'll be able to see the PSNH corridor, until

7 it hits the property line -- the town line to

8 Whitefield is. So, it's this, this is the

9 corridor where the overhead line is proposed.

10 Here is where the transition station is

11 proposed, Transition Station Number 5. Is that

12 correct?

13 A. (Bowes) It's actually, I think, on the other

14 side of the right-of-way, but the general area

15 is correct, yes.

16 Q. Oh, right. Sorry. It's really difficult for

17 me to see. But it's -- so, it's to the east of

18 the existing right-of-way, immediately to the

19 east?

20 A. (Bowes) That is correct.

21 Q. Okay. So, Renewable Properties purchased a

22 ranch house and a nine-tenths of an acre of

23 land for the purpose of siting the transition

24 station, correct?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) I believe that's correct. I'm not  
2 specifically sure of the actual size of the  
3 parcel, but that sounds right.

4 Q. Okay. And nine-tenths of an acre is plenty of  
5 room for you to build a transition station?

6 A. (Bowes) Yes. I believe the dimensions are  
7 approximately 80 by 130. So, it would be, you  
8 know, less than a half an acre.

9 Q. Right. Okay. Have there been any changes to  
10 the plan for the transition station in the last  
11 month or so?

12 A. (Bowes) No changes to the plans, no.

13 Q. We have heard that there's a hotel being built  
14 on the adjacent site immediately to the east,  
15 at the old Baker Brook property. And that the  
16 new owner was horrified to hear that a  
17 transition station would be right next door,  
18 and that a deal is being made to move that  
19 transition station up the corridor north, say,  
20 between 500 and a thousand feet. We don't know  
21 any details, but this was publicly stated in a  
22 zoning board meeting in Bethlehem. I don't  
23 have the transcript of that as an exhibit, but  
24 I could provide it, if necessary.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           But the engineer for the hotel said that  
2           there were discussions underway to change the  
3           location of this station. Do you -- anyone on  
4           the construction panel know anything about  
5           this?

6   A.    (Johnson) So, I believe we testified earlier,  
7           about a month ago, that we have had discussions  
8           with the landowner that has the hotel. Those  
9           discussions will continue to go forward. But,  
10          at this time, the transition station is being  
11          located where the permit application is, and  
12          exactly on that property. Meaning, we're not  
13          planning on moving that transition station at  
14          this time.

15   Q.    So, you have no plans to move that, but you  
16          might?

17   A.    (Johnson) As I believe Mr. Bowes stated almost  
18          a month ago as well, we're always willing to  
19          listen to options that can better the Project.

20   Q.    North of the transition station overhead  
21          construction is proposed, with towers ranging  
22          in height from 70 to 105 feet to be built on  
23          the existing corridor. Can you tell me the  
24          locations of staging and laydown areas that

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 would serve construction along the corridor  
2 just north of Route 302? So, that's just north  
3 of the transition station right there.

4 A. (Bowes) So, we've testified previously that the  
5 method of construction would be to use the  
6 construction pads in a serial type process as  
7 the laydown areas. So, we would come in, do  
8 the -- first would be any vegetation management  
9 or tree removals that were necessary, then  
10 there would be temporary road-building,  
11 including the construction pads. And we would  
12 actually use the construction pads to stage the  
13 materials for the overhead lines for the  
14 structures themselves. And, then, we have not  
15 identified, if that's your question,  
16 specifically for the Town of Bethlehem, if  
17 other locations would be necessary. Obviously,  
18 the transition station location right there  
19 would be a prime location to use as well. We  
20 have not specifically identified that at this  
21 point.

22 Q. Okay. So, you just need to know if there's  
23 enough space there to use that?

24 A. (Bowes) Well, again, --

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

- 1 Q. The transition station, for example, as a spot?
- 2 A. (Bowes) That's a possibility.
- 3 Q. Okay.
- 4 A. (Bowes) But, you know, obviously, we have  
5 several construction pads that will be located  
6 within the right-of-way. They're approximately  
7 the same size as that transition station.
- 8 Q. Okay. Can you tell me how the construction  
9 site will be accessed from public roads?
- 10 A. (Bowes) For this part of the corridor?
- 11 Q. Yes.
- 12 A. (Bowes) Yes. I believe there is a set of maps  
13 that show the access roads for each location.  
14 We can certainly call them up, if you'd like.
- 15 Q. So, access roads, so you would be coming right  
16 off of Route 302?
- 17 A. (Bowes) That's one of the locations, yes, for  
18 this portion of the right-of-way.
- 19 Q. We'll get to anything north of 302 in a minute.  
20 Okay? Let's assume you have established  
21 suitable access to sites where towers will be  
22 erected. For each of these towers, you need to  
23 do preparatory site work, build the foundation,  
24 assemble the tower, and string wire, right?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) In general terms, yes.

2 Q. Yes. Can you tell me roughly how many trips it  
3 takes to get a tower completed, including all  
4 traffic of workers, materials, and equipment?

5 A. (Bowes) So, just the tower itself or the  
6 preliminary work you discussed as well?

7 Q. Well, everything. To go from where we are  
8 today, to having a completed tower, with wires  
9 strung on it. And, obviously, you don't know  
10 exactly, but roughly would be a good idea to  
11 know.

12 A. (Bowes) So, I can start, and John may be able  
13 to add as well. There would, obviously, be  
14 crews and vehicles necessary to do the tree  
15 work along the right-of-way. So, that would  
16 probably be a few vehicles based on each  
17 location. The workers would access those  
18 vehicles. The vehicles themselves would  
19 probably come off the right-of-way at night.  
20 So, they would be going on and going off.

21 There will be road-building activities,  
22 that will be dump trucks, potentially swamp  
23 mats. In this area, I believe it's fairly wet.  
24 So, there would probably be a series of swamp

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 mats. So, there would be vehicles and probably  
2 cranes that would come in to remove the swamp  
3 mats and place them into the corridor where the  
4 access road would be built.

5 Following that, we would build the pads  
6 themselves for a specific tower. That would  
7 probably take several vehicles and several days  
8 to do that. So, the vehicles would be going on  
9 and off. We would then drill a foundation or a  
10 series of foundations, depending on which type  
11 of structure it was. Assume it's a lattice  
12 structure, we'll be doing four foundations.  
13 Each one of those would probably take a few  
14 hours to a couple days. So, again, the vehicle  
15 would be going on and off the right-of-way for  
16 that. Possibly, in that case, because the  
17 construction pad was built, that vehicle might  
18 stay there in place for approximately a week.

19 Following that, if it's a lattice  
20 structure again, vehicles would deliver the  
21 steel, and it would be assembled on-site.  
22 Probably two to three vehicles for a lattice  
23 structure.

24 The conductor itself probably would not be

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 from this specific hypothetical location.

2 Those will probably be located every few  
3 thousand feet, where we have conductor pulling  
4 and/or helicopters in use to do the conductor  
5 pulling and what they call "clipping in" or  
6 attachment to the structures themselves.

7 Did I give a general sense of what you  
8 were looking for?

9 Q. Yes. But it doesn't give me a general sense.  
10 Can you give me a general number? Are we  
11 talking like 100 trips?

12 A. (Bowes) That's probably a little high. I would  
13 say 25 to 40 trips per location.

14 Q. Okay. Can you tell me how many weeks or months  
15 of uninterrupted work it takes to put up one  
16 tower?

17 A. (Bowes) So, I'll have John start, maybe I'll --

18 A. (Kayser) Yes. And, as Ken said, that the  
19 foundation, probably three to five days to  
20 drill and pour a foundation. Then, once the --  
21 the foundation has to set, so that -- has to  
22 set at least seven days before they can begin  
23 erecting the tower on it. So, once the  
24 foundation is cured enough, they will set the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 tower, usually a day or two to set the tower.  
2 Once that's done, then the conductor pulling  
3 operation. So, as Ken said, that will depend  
4 on the reel length. So, if you have a 10,000  
5 foot reel of conductor, they will pull that.  
6 That's about a week's time to pull it, but they  
7 will have to come to each of the structures.  
8 Put the conductor pulling blocks on there, they  
9 will pull the ropes through, then the  
10 conductor, and then come back and clip it in.  
11 So, it's about a week's time, with a couple of  
12 trips to each of those.

13 A. (Bowes) So, maybe to make it clear, is it's not  
14 a -- each structure, the sequence of work isn't  
15 in the same period of time.

16 Q. Right.

17 A. (Bowes) So, typically, the vegetation  
18 management or tree clearing will be done in the  
19 winter months. Road-building in the summer  
20 months. Foundations probably some months after  
21 that, possibly even a different construction  
22 season. And, then, the tower erection and  
23 conductor pulling would probably be separated  
24 by several weeks at a minimum. So, it's

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           probably five or six different progressions of  
2           work at each structure location.

3   Q.    There are about 30 towers proposed along the  
4           corridor from Route 302 to the Ammonoosuc  
5           River.  So, do we just multiply the number of  
6           trips and the amount of time you just mentioned  
7           by 30?

8   A.    (Bowes) Probably not.  There will probably be  
9           some synergy of vehicle use.  And, as I said,  
10          we're going to kind of move from one  
11          construction pad to the next.  So, vehicles  
12          might not be coming off the right-of-way in  
13          every case.

14   Q.    Yes.  Uh-huh.

15   A.    (Bowes) It clearly would be for, you know, the  
16          foundation, the concrete, vehicles will be  
17          coming on and off.  The structure, you know,  
18          deliveries would be on and off.  But some of  
19          the other activities, the vehicles would stay.  
20          For example, drilling would probably go in a  
21          sequence of all 30 structures along.

22   Q.    Yes.

23   A.    (Bowes) So, all the vehicles would not come  
24          off.  So, I would probably estimate up to

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           25 percent of the vehicles would not be coming  
2           off in a sequence of 30 structures.

3   Q.    Okay.  Do you know that there's no existing  
4           road on this part of the corridor?

5   A.    (Bowes) That is correct.  And I know it's also  
6           a fairly wet area.

7   Q.    Do you propose to construct an on-right-of-way  
8           road along the corridor for four miles, because  
9           that's how far it is for Route 302 to the  
10          Ammonoosuc River?

11  A.    (Bowes) So, I believe, looking at the maps  
12          that -- One-Touch that Mr. Johnson has up, it  
13          looks like that is the location, all of those  
14          structures would be accessed along a single  
15          road from Route 302.

16  Q.    Okay.  How wide would such a road be?

17  A.    (Bowes) I think what's in the Application is  
18          pretty accurate, probably 12 to 14 feet wide.  
19          And, again, if it's swamp mats, it will be the  
20          dimensions of the swamp mat.

21  Q.    So, the crane trucks are okay on 12-foot wide  
22          road?

23  A.    (Bowes) I would say yes.

24  Q.    Okay.  Building a road big enough to

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 accommodate heavy equipment where there is now  
2 none constitutes a significant change in the  
3 use of the property. Do you know who owns this  
4 property?

5 A. (Bowes) So, there's a variety of owners of the  
6 property.

7 Q. Uh-huh.

8 A. (Bowes) PSNH has an easement across that.

9 Q. Uh-huh. Have you asked any of the landowners  
10 along this part of the corridor for permission  
11 to build such a road?

12 A. (Bowes) Not that I'm aware of, no.

13 Q. Well, there's no mention of road-building in my  
14 easement deed. So, it seems to me that you  
15 need to ask my permission to build a road  
16 across my land.

17 A. (Bowes) Is that a question?

18 Q. No, that's just a statement. I just thought  
19 I'd put it out there, because, you know, the  
20 question was "if you had asked anyone's  
21 permission?" And that creates a problem.

22 You can see from the satellite image here  
23 that there's not much going on here, it's  
24 sparsely populated, and, therefore, a pretty

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 quiet place. Traffic along the corridor during  
2 construction would have a noticeable effect on  
3 our quiet enjoyment of our property. Please  
4 explain why we should be expected to endure  
5 this.

6 A. (Bowes) So, I was fine with the question up  
7 until the last part of that. I'm not sure I  
8 can explain how you can endure something.

9 Q. Well, it's not how we can endure it. Why  
10 should we be expected to endure it? We  
11 purchased the place, we live where we live  
12 because of the quality of the experience in  
13 living there, which does not include heavy  
14 construction. And we might consider enduring  
15 this if we had a good reason to, but we have  
16 not been presented with a good reason yet. If  
17 you don't have one, that's okay.

18 A. (Bowes) So, again, I'm not sure what the  
19 question is.

20 Q. Okay. We'll move on. And this raises it a  
21 little bit differently. A new road along the  
22 right-of-way would be an attractive nuisance  
23 and would result in future traffic where there  
24 now is none. This would also affect the quiet

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           enjoyment of our property for years to come.

2           You with me so far?

3   A.   (Bowes) So, I would disagree. That the roads  
4           we plan to build are temporary in nature, and  
5           we plan to remove them at the end of the  
6           construction phase.

7   Q.   I heard what you said. You have stated that  
8           mats would be used to enable travel through  
9           some wetlands area -- areas. Are there any  
10          mats planned for use along this part of the  
11          corridor?

12   A.   (Bowes) From what I have seen of this part of  
13          the corridor, I would say, yes, we would plan  
14          to use mats.

15   Q.   How big are these mats?

16   A.   (Kayser) About 16 feet wide, 12 or 16 feet  
17          wide, 4 feet in length. So, you just set them  
18          down every four feet.

19   Q.   And these are like 12 by 12s or something all  
20          put together?

21   A.   (Kayser) Eight (8) by 8s or 12 by 12, yes.

22   Q.   Okay. How heavy is the largest piece of  
23          equipment you propose to put to use along this  
24          part of the corridor?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Kayser) I don't know the exact rates. But, as  
2 we talked last time, that you've got the cranes  
3 are probably your heaviest piece of equipment.

4 Q. Or comparable?

5 A. (Kayser) Yes, comparable.

6 Q. Okay. So, if you've got a wetland -- if I were  
7 to -- if any of us were to walk down there  
8 today to where -- to the corridor, to the wet  
9 spot that you've seen, you might be going in to  
10 your knees in water. So, if you were to take  
11 one of these mats and put it down, and then  
12 drive an excavator on it, it would probably  
13 sink, and the excavator would be in the water.  
14 Would you then use multiple mats? Is that how  
15 that works?

16 A. (Kayser) Possibly. They will possibly stack  
17 mats to make sure that the excavator or the  
18 equipment can drive up and down the  
19 right-of-way. They can do it during frozen  
20 ground conditions. And they will follow the  
21 best management practices for the wetland  
22 areas.

23 Q. Okay. So, you propose to remove these mats  
24 upon completion of the project construction,

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 right?

2 A. (Bowes) That is correct, yes.

3 Q. What do you plan to do with them?

4 A. (Bowes) So, mats can be, if they're still in  
5 good condition, they will be recycled and  
6 reused.

7 Q. Okay.

8 A. (Bowes) If they're not, they will probably be,  
9 you know, chipped and burned.

10 Q. All right. Do you know that there are no  
11 secondary roads that offer access to this part  
12 of the corridor?

13 A. (Bowes) That is correct, according to our maps.

14 Q. Page 21 of John Kayser's prefiled testimony  
15 indicates that you have an inventory of  
16 possible access roads. Do any of them offer  
17 access to this part of the corridor? And I'm  
18 speaking about, you know, some private  
19 landowners.

20 A. (Bowes) We have not identified any that we  
21 would use. Just Route 116 and Route 302 for  
22 this section.

23 Q. You can't get there -- well, you can't get to  
24 the southern -- the far south of the Ammonoosuc

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 River, you can't access from Route 116.

2 A. (Bowes) Understood. But I'm looking at the  
3 whole map.

4 Q. Yes. Thank you. So, there won't be any  
5 staging, laydown, or storage areas up to the  
6 north there. Everything will be coming in  
7 right at Route 302, sort of at the Miller Pond  
8 there?

9 A. (Bowes) For this portion of the right-of-way,  
10 that's correct.

11 Q. Right. Okay. Okay. On Page 15, which is  
12 Line 21, of John Kayser's testimony, he states  
13 that "All construction laydown yards and  
14 temporary storage sites will fall under the  
15 permits for this Project and will be  
16 established and maintained in accordance with  
17 all permit conditions. NPT requests that the  
18 Committee delegate approval authority, to the  
19 extent any approval may be necessary, for all  
20 construction laydown yards and temporary  
21 storage areas to the New Hampshire Department  
22 of Environmental Services (DES)."

23 So, if these are necessary Project  
24 activities, why should they be exempt from SEC

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

1 oversight?

2 A. (Bowes) So, I don't think we're saying they're  
3 "exempt". We're saying -- we're asking for a  
4 delegated authority. We have asked this on  
5 previous projects, like the Merrimack Valley  
6 Reliability Project, and we believe that's a  
7 successful model to follow for this Project.

8 Q. Well, why should DES, and not the SEC, be  
9 empowered to evaluate the impact of the  
10 development and activity at these sites?

11 A. (Bowes) So, we believe the DES has a better  
12 ability to manage the environmental aspects of  
13 a laydown area or a show-up site than the SEC  
14 does. They have the ability to do that, to  
15 evaluate our use of their best management  
16 practice. And they would have inspection  
17 capabilities and regulatory authority as  
18 needed.

19 Q. Well, when did DES become qualified to assess  
20 all of the criteria spelled out in Site 301.14  
21 through 301.16, because there are other issues,  
22 aside from the environmental issues, in any of  
23 these assessments?

24 A. (Bowes) So, without reviewing those specific

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 segments, I can't answer the question. But, if  
2 you have those, I'll be glad to look at them  
3 and go through each one, each one of the  
4 criteria.

5 Q. I'm not going to go through that now. It's too  
6 much trouble.

7 So, have you received a response to this  
8 request that this authority be delegated to  
9 DES?

10 A. (Bowes) Not at this time, no. We believe it  
11 will be part of the certificate conditions.

12 Q. Who will provide independent third party  
13 oversight of construction activities?

14 A. (Bowes) So, again, depending on your definition  
15 of "independent third party", the Project  
16 certainly will hire independent inspectors,  
17 that will report directly to the Project  
18 Director, not to the constructors or  
19 subcontractors for the Project. And,  
20 obviously, the DES has responsibility and  
21 authority to monitor the Project as well.

22 Q. Well, I'm more interested in skeptics like me,  
23 who would like someone who is not chosen by a  
24 project, who is chosen by an external

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 authority, a supposedly impartial outfit  
2 somewhere, so that we can be assured that what  
3 the things that you say you're going to do and  
4 the conditions are adhered to.

5 A. (Bowes) I understand your position and don't  
6 disagree with it.

7 Q. Okay.

8 A. (Bowes) We typically have independent  
9 environmental monitors on our projects. It's  
10 not something that we would oppose in this  
11 case.

12 Q. And who will pay for this?

13 A. (Bowes) The Project would pay for that.

14 Q. Okay. On June 20th, 2016, I met with Sarah  
15 Hoodlett [Hoodett?], Brian Bosse, and Dana  
16 Bisbee, all representing Northern Pass, at my  
17 property in Bethlehem, to give them an  
18 opportunity to explain what was proposed there.  
19 I wanted to know exactly where the towers would  
20 be located, how tall they would be, and the  
21 dimensions of the foundations. They made it  
22 clear that the plans were preliminary and  
23 subject to change, and were not able to answer  
24 any of these questions. Has that changed?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) So, I believe we can answer those  
2 questions right now, if you'd like?

3 Q. So, you know precisely where the towers will be  
4 and what the foundations will be on my land?

5 A. (Bowes) I believe so, yes. The foundation --

6 Q. So, --

7 A. (Bowes) Again, the foundation design would be  
8 somewhat generic in nature, until the geotech  
9 is done. But we can clearly identify where the  
10 tower would be on your property, the height of  
11 the tower, and what would be required to  
12 construct that tower.

13 Q. Okay. So, if I put in a request to the Project  
14 to send someone out to walk the property, they  
15 would come along and we could sort that out? I  
16 wanted to be able to put a stake in the ground.

17 A. (Bowes) And we have done that for several of  
18 the easement holders or the landowners where we  
19 hold an easement. We have actually sited where  
20 the structure would be, where the foundations  
21 would be with stakes.

22 Q. Okay. So, I'll just have to put in that  
23 request.

24 A. (Bowes) No, you don't have to. You just did.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 We will follow up.

2 MR. VAN HOUTEN: Okay. Thank you. I  
3 have no more questions. Thank you.

4 CHAIRMAN HONIGBERG: All right. Next  
5 up is the Bethlehem/Plymouth Abutters,  
6 Mr. Palmer's group. Mr. Palmer has given us a  
7 sheet of paper identifying four people to ask  
8 different areas of questions. That's  
9 Mr. Lakes, Dr. McLaren, Ms. Meyer, and Mr.  
10 Palmer himself. And that on its -- you know,  
11 it's consistent with how you've been asking  
12 your questions, and we're going to allow that  
13 to take place.

14 I'll just note that at least a dozen  
15 of the categories listed here are issues that  
16 have been covered by others. So, to the extent  
17 you can avoid repetition, a lot of people will  
18 be happy with you. Understanding that you're  
19 entitled to ask the questions you're entitled  
20 to ask, but, if you're asking the same  
21 questions that have already been asked and  
22 answered, there may be an objection.

23 And we'll get started. You want  
24 Mr. Lakes to go first, Mr. Palmer?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 MR. PALMER: Yes, please.

2 CHAIRMAN HONIGBERG: All right. Mr.  
3 Lakes, you may proceed. We're going to take a  
4 break at some point in the next 10 or 15  
5 minutes, but why don't you get started.

6 *[Brief off-the-record discussion*  
7 *ensued.]*

8 MR. LAKES: Carl Lakes, with the  
9 underground abutters group. I've got a few  
10 questions. And, in the interest of trying to  
11 make this move along, I guess "yes" and "no" is  
12 probably the best thing. But, you know, where  
13 there needs to be elaboration, feel free to do  
14 that.

15 BY MR. LAKES:

16 Q. In the Connecticut underground -- I'm sorry.  
17 Let me just start here. I believe you  
18 mentioned in the last session a total of 159  
19 splice vaults on the underground route, and 23  
20 to be fully in the road. Does that sound  
21 accurate?

22 A. (Johnson) I believe that was accurate at the  
23 time, yes.

24 Q. Dimensions at 8-foot by 8-foot by 34 feet long?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) I believe that's the excavation  
2 dimension, yes.

3 Q. I think that's the size of the vault from what  
4 I got from my notes the last time. I just  
5 wanted to confirm that, because I believe the  
6 hole is going to be quite a bit bigger than  
7 that.

8 A. (Johnson) I believe the dimensions are 8 by 8  
9 by 30.

10 Q. Okay.

11 A. (Johnson) And the excavation would be a foot to  
12 a foot and a half wider.

13 A. (Scott) So, as shown in the drawings, the  
14 length is 34 feet, 2 inches in length.

15 Q. Okay.

16 A. (Scott) The width is 7 feet, 10 inches. And  
17 the depth of the vault itself is about 8 feet  
18 or so.

19 Q. Yes.

20 A. (Scott) Or the "splice pit", I should say.

21 Q. Okay. So, you're basically planting a  
22 structure equal to the size of half a house in  
23 the ground every third of a mile. Does that  
24 sound pretty reasonable?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) By "reasonable", do you mean "is it  
2 accurate?"

3 Q. Well, I guess house size varies. But, you  
4 know, there are plenty of ranches out there  
5 where, if you doubled the size of that, you  
6 would have a pretty good size house. So,  
7 that's what you're planting in the ground every  
8 third of a mile. Anyway, I'm just making the  
9 point.

10 A. (Bowes) So, I believe what you said is  
11 accurate. You know, I mean he read the  
12 dimensions to you.

13 Q. Okay.

14 A. (Bowes) And the splice vaults will be located  
15 approximately every third of a mile.

16 Q. Yes. So, where vaults are placed, there needs  
17 to be vehicular access at all times, is this  
18 correct? In other words, where you have a  
19 vault, if you need to work on it or something  
20 like that, you need to have access to that  
21 vault. So, certainly, planting trees around it  
22 and things like that are probably not something  
23 you're going to do or that would be allowed to  
24 happen?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) So, I think you're talking about after  
2 the construction is complete?

3 Q. Correct.

4 A. (Bowes) So, that would be accurate. Either  
5 above the duct bank or above the splice  
6 enclosures, plantings would be limited.

7 Q. So, everywhere a vault is placed, a permanent  
8 space around the vault is necessary. What is  
9 the size of that footprint around the vault, in  
10 terms of where it needs to be cleared or remain  
11 cleared?

12 A. (Bowes) So, I would say the general area would  
13 be the dimensions of the splice enclosure  
14 itself. I don't think that --

15 Q. So, you're saying that --

16 A. (Bowes) I don't think we would limit the  
17 planting next to the splice vault in any way.

18 Q. Will there be any signage around the vaults?

19 A. (Johnson) No. No.

20 Q. Okay. Would it be safe to say, because of the  
21 narrow roads in Easton and in Franconia, and  
22 lack of shoulder, wetlands, drop-offs, that  
23 there will be a number of vaults under the  
24 pavement and/or half under the pavement and in

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 the shoulder?

2 A. (Johnson) It is entirely possible, yes. I  
3 don't have the specifics in front of me to say  
4 "yay" or "nay".

5 Q. Is it true that DOT prefers the vaults totally  
6 outside the pavement?

7 A. (Johnson) That is part of their Utility  
8 Accommodation Manual, yes.

9 Q. How many vaults are planned to go fully under  
10 the road in Easton?

11 A. (Johnson) I do not know off the top of my head.  
12 As you alluded to earlier, there are 23 on the  
13 total Project.

14 Q. Do you have variances to put the vaults under  
15 the pavement at this time from the DOT?

16 A. (Johnson) We have submitted variance requests  
17 for a certain number of them. That request  
18 process continues. So, as of this time, the  
19 DOT has not ruled on any of our variance  
20 requests.

21 Q. Okay. So, basically, 18 months after the  
22 submittal of the Application, NPT cannot tell  
23 landowners if half a house will be put in their  
24 front yard?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Johnson) So, I believe, as we have discussed  
2 many times over these sessions, the splice pits  
3 will be placed within the DOT right-of-way.  
4 So, it's -- you know, the supposition that it's  
5 "going to be in somebody's front yard" I  
6 believe is incorrect.

7 Q. And why is that incorrect? I mean, you know,  
8 people's front yards do include this  
9 right-of-way, and no one thinks of it as being  
10 something that people can, you know, throw a  
11 half a house into at will. So, basically,  
12 these people are left to the unknown, in terms  
13 of, you know, when or where these vaults will  
14 be placed on the roads. Is that correct?

15 A. (Johnson) So, I believe that we have stated  
16 that we will be in the disturbed areas of the  
17 ditch lines of the roads, and not -- and one of  
18 the criteria is that -- that we're adhering to  
19 as a project is to not put it in somebody's  
20 yard, where we will disturb any kind of  
21 plantings or stone walls or anything like that.

22 Q. So, you prefer to put the vaults in the road,  
23 is that what you're saying?

24 A. (Johnson) The Project would definitely prefer

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           them in the road for many reasons. We are  
2           working with the Department of Transportation  
3           to adhere to the Utility Accommodation Manual  
4           as much as we can.

5   Q.   Now, in terms of the depth of these holes, from  
6           what I've read from the DOT, the top of that  
7           vault needs to be three feet below the surface  
8           of the ground. Are you working on a variance  
9           for that so you can make those vaults  
10          shallower?

11   A.   (Johnson) No.

12   Q.   So, they are going to be at least three feet  
13          under the ground?

14   A.   (Johnson) That is correct.

15   Q.   Okay. Please state the land use restrictions  
16          with regard to trenching and splice vaults. In  
17          other words, distance of trees, planting new  
18          trees, new stonewalls, driveways, fences,  
19          signage, what are the restrictions that are  
20          involved around trenching and the vault?

21   A.   (Bowes) So, as I said before with the splice  
22          enclosures, we would not allow plantings  
23          directly above either the duct bank or the  
24          splice enclosure. But, adjacent to it, I don't

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 believe there will be any restrictions.

2 Obviously, if you're going to do, you  
3 know, mechanical excavation, the DigSafe  
4 process would be required, because it's, you  
5 know, part of the state law today. So, if  
6 you're going to be putting something into the  
7 ground, you'd have to go through that process  
8 and get a proper mark-out.

9 Q. So, in terms of planting trees and that sort of  
10 thing, say that the trench is, you know,  
11 running through the front of somebody's yard,  
12 you know, hopefully closer to the road, but, if  
13 not, what is the limitation in terms of where  
14 you can plant a full size maple tree, that type  
15 of thing?

16 A. (Bowes) That's a better question, so it's more  
17 precise. So, a full size maple tree, over  
18 time, may encroach into the duct bank and into  
19 the splice enclosure. A general rule of thumb  
20 is, the crown of the tree will be where the  
21 roots are.

22 Q. Correct.

23 A. (Bowes) So, since it's going to be a very large  
24 tree, you probably want to back off from the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 splice enclosure or from the duct bank by that  
2 distance.

3 Q. Okay. So, you're saying that, if the tree at  
4 full growth, if the roots go out 20 or 30 feet,  
5 then you should plan, when you plant -- when  
6 you do your plantings, that you should be 20 to  
7 30 feet away from that trench?

8 A. (Bowes) For that specific example, yes. Same  
9 as you wouldn't plant that tree 20 or 30 feet  
10 from your house. You'd want to --

11 Q. Okay.

12 A. (Bowes) You would want to have separation, so  
13 the routes could develop fully, and the tree  
14 has a chance to be uniformly -- uniformly  
15 developed in its growth.

16 Q. So, people that have small yards, and this  
17 thing is going to be there, and say their house  
18 is 30 feet off the road, in fact, I know a  
19 house across the street from me that is roughly  
20 15 to 20 feet off the road. So, they will have  
21 to plant a tree in the center of their house.

22 A. (Bowes) So, I would say they would have to  
23 select a species that would accommodate the  
24 requirements, both from the DOT, the DOT may

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 not allow a planting within their right-of-way  
2 like that either, but we would put some  
3 restrictions on what type of vegetation they  
4 could add.

5 Q. Now, are these restrictions from Eversource or  
6 are they from the DOT?

7 A. (Bowes) Depending on the nature of what the  
8 placement or the encroachment within their  
9 right-of-way, the DOT has some authority in  
10 that. Eversource would only do it during a  
11 maintenance activity. And, ultimately, that  
12 tree probably would not flourish if it was  
13 directly adjacent to the duct bank, it would  
14 likely die, and it would not be --

15 Q. When you say -- excuse me. When you say "it  
16 would likely die", what do you mean? That  
17 there's something from the duct bank that would  
18 kill the tree or that it's going be cut down  
19 because it's too close to the duct bank?

20 A. (Bowes) So, it's not something from -- no  
21 materials or things like that or things from  
22 the duct bank itself. It would just be that  
23 the growth of the roots would not develop  
24 properly, so it likely would not flourish.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           And, ultimately, it would have to be removed  
2           when it died.

3   Q.    Okay. Will Eversource, maybe in conjunction  
4           with DOT, provide a hard copy of restrictions  
5           around these, you know, the trench and the  
6           vaults, will it provide written information and  
7           when will that be?

8   A.    (Bowes) So, I don't believe we've developed  
9           anything at this point. We certainly can. And  
10          it would be, when a certificate is issued, we  
11          could develop that. We already have brochures  
12          in availability for "Right Tree Right Place".  
13          So, there's not going to be a lot of difference  
14          between what's already publicly available from  
15          Eversource to what would be required in this  
16          case. But we could certainly document in  
17          writing any restrictions for plantings adjacent  
18          to the duct bank or to its splice enclosure.

19   Q.    Okay. Moving on. In the case of underground  
20          line failure, is the cable pulled out and  
21          replaced or is it repaired?

22   A.    (Bowes) So, the cable itself would be pulled  
23          out and replaced. If a splice were to fail, it  
24          might be a repair, but it's highly unlikely.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. You're talking about the splice in the splice  
2 vault?

3 A. (Bowes) Correct.

4 Q. So, if that failed, you'd probably still have  
5 to change the cable out, you're saying?

6 A. (Bowes) Probably, I would say yes. And I would  
7 say it would be a rare case where we could just  
8 replace the splice.

9 Q. Can I assume that the entire surface of two  
10 vaults needs to be opened up to pull the cable  
11 for repair?

12 A. (Bowes) Yes.

13 Q. Would it require backhoes, cranes, dump trucks,  
14 and shut down one lane of a road for at least a  
15 third of a mile, and how long would this be?  
16 How long would that process take?

17 A. (Bowes) So, I don't think it would shut down --  
18 first of all, I don't think it would shut down  
19 for a third of a mile. It would shut down at  
20 each splice enclosure location.

21 Q. Yes.

22 A. (Bowes) The time sequence to do a repair on an  
23 underground cable would probably be three to  
24 four weeks in duration.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Three to four weeks. Thank you. If the vault  
2 is buried off pavement, how can you be sure  
3 that the vault will not encroach on  
4 right-of-way boundaries, if the survey area, as  
5 has been clearly stated in earlier proceedings,  
6 is highly questionable? I think in the last  
7 meetings that we had, it seemed as though the  
8 boundary lines were fluid at best. What  
9 happens if you actually place a vault over that  
10 boundary line, number one, and if a residence  
11 takes Eversource to court over a boundary  
12 dispute, will construction be halted in that  
13 particular place?

14 MR. NEEDLEMAN: I'm going to object  
15 as to the second part of the question. It  
16 calls for a legal conclusion.

17 CHAIRMAN HONIGBERG: Mr. Lakes.

18 MR. LAKES: I don't know that it  
19 calls for a legal conclusion. I mean, I  
20 would -- well, based on your -- maybe I can  
21 change it.

22 BY MR. LAKES:

23 Q. Based on your experience with other underground  
24 situations that you've had in the past, has

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           there ever been an issue where a boundary was  
2           crossed and there was a dispute that needed to  
3           be settled and how was that settled?

4   A.   (Bowes) So, I can answer the -- I'll answer  
5           both the original question and the second  
6           question. So, "how it would be done", in the  
7           hypothetical question, is, if we located  
8           something that was not within the DOT  
9           right-of-way, and we discovered that, we would  
10          either have to relocate it or seek agreement  
11          from the property owner. If the property owner  
12          said "no", we would have to move the  
13          underground structure.

14                 Now, the second part of the question or  
15                 the second rephrasing of it, "has it ever  
16                 happened?" It has not happened with  
17                 underground transmission facilities. It  
18                 routinely happens with overhead distribution  
19                 facilities, where we find out we have placed a  
20                 pole on private property without the necessary  
21                 rights, easement rights. In that case, we give  
22                 the property owner a choice: To provide us the  
23                 rights or we will remove the facilities.

24   Q.   Okay. Can a paved driveway be put over the

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 splice vault?

2 A. (Scott) The general answer would be "yes". You  
3 could pave over it, and then that paving would  
4 be removed to access it, if that were a  
5 necessity, and then the paving would be  
6 restored after grade restoration.

7 Q. Is there any special type of permit that's  
8 necessary to be able to do that? I mean,  
9 somebody decides they're going to put in a  
10 driveway. Do they have to go through any  
11 different process than they go through now,  
12 going over that vault, or over the trench, for  
13 that matter?

14 A. (Bowes) I don't believe so, no.

15 Q. In many cases, when you build a driveway, you  
16 have culverts underneath, you know, for flow of  
17 water, *etcetera*. If somebody wants to build a  
18 driveway over a vault, but it's necessary to  
19 have a culvert, what's the procedure with that?

20 A. (Bowes) So, I think it would be the same  
21 procedure you would follow today. You would  
22 have to go through the DOT for the necessary  
23 permits to do that. There might be another  
24 step in the process, where Northern Pass would

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           also review the plans that you've submitted to  
2           DOT, and we might have some comments or some  
3           changes on those plans.

4   Q.    So, there could be some severe restrictions  
5           with that regard, and very possibly the  
6           landowner told that there's no way you can put  
7           this there and get the drainage that you're  
8           looking for?

9   A.    (Bowes) I guess, in the hypothetical, that's  
10           possible. In the practical, I don't think it's  
11           a very common occurrence, where we have denied  
12           someone access when they want to cross over the  
13           duct bank.

14   Q.    I know, but I'm talking about the culvert part  
15           of it. If you need to go under the driveway,  
16           and the "half a house" as I call it is sitting  
17           there, you're not going to put that culvert in.

18   A.    (Scott) So, typically, the depth below-grade  
19           requirement that we're being asked to be  
20           installed at would put us below the elevation  
21           that that culvert for that driveway crossing  
22           would be installed at.

23   Q.    Well, that would depend on the grade of the  
24           land and so forth, isn't that correct?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Scott) Potentially.

2 Q. In the event of a transmission line failure, a  
3 driveway, paved or not, over a vault would have  
4 to be ripped open. Who is responsible for the  
5 driveway repair over the vault if repairs need  
6 to be made?

7 A. (Bowes) So, in this case, it's over the splice  
8 pit, the driveway?

9 Q. Yes. Yes.

10 A. (Bowes) Northern Pass would be responsible for  
11 restoring the driveway. The same thing if you  
12 had to, for some reason, get into the trench  
13 for something?

14 A. (Bowes) Yes. The most common occurrence would  
15 be a third party that would excavate and  
16 penetrate into the duct bank or trench. In  
17 that case, we would probably file a claim  
18 against the third party, but Eversource would  
19 still be responsible for restoration. We would  
20 just pass those costs onto the causer of the --  
21 of the excavation.

22 Q. Again, so, if people put plantings or  
23 stonewalls, things of that nature, over these  
24 structures, Eversource would make good on

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           whatever costs are associated with putting that  
2           back to the way it was?

3   A.    (Bowes) So, I believe I said we would not allow  
4           plantings. We didn't talk about stonewalls.  
5           But we said no plantings over the splice  
6           enclosures or the duct banks.

7   Q.    All right. So, when you do work on a splice  
8           vault, you would -- the truck would be working  
9           on the road part, and not on the inner part or  
10          yard part of that vault?

11   A.    (Bowes) So, I think I understand your question.  
12          If, during maintenance or repair, we cause  
13          damage to the things on a person's property, we  
14          would do the same thing Eversource does today.  
15          We would repair those to the satisfaction of  
16          the customer. And, obviously, there's a claims  
17          process if the customer is not satisfied. But  
18          our intention would be to restore the person's  
19          property to the condition that we found it.

20   Q.    Does NPT or Eversource plan on giving each  
21          landowner a written guarantee of its  
22          obligations in this regard? In other words,  
23          you know, somebody's not thinking about it, but  
24          all of a sudden something happens around either

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 the trench or the vault, they go "My God, I  
2 don't even know what to do with this." I mean,  
3 is there going to be something in writing that  
4 Eversource is going to give to people so that  
5 they have something that they can go to, if  
6 there's an issue or a restriction or anything  
7 of that nature, or a guarantee as you were  
8 saying? Will you have a written guarantee that  
9 you will put everything back the way it was?

10 A. (Bowes) So, we would plan to use the same  
11 process we do now with Eversource for Northern  
12 Pass. And I don't know if it's a written  
13 guarantee that we provide, but we do provide  
14 restoration of a customer's land or property.  
15 We have a claims process, if they're not  
16 satisfied with that. And, obviously, there is  
17 legal recourse by the property owner if they're  
18 not satisfied with the first two. I believe we  
19 would want to follow the same process.

20 So, I don't think you're going to see a  
21 different written guarantee from Northern Pass  
22 than you do today from Eversource.

23 Q. Okay. Moving on, in the Connecticut  
24 Underground Project from Middletown to Norwalk,

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Eversource paid landowners for the use of their  
2 property to place splice vaults, I believe that  
3 was mentioned in the last meeting that we had.

4 Is this correct?

5 A. (Bowes) That is correct.

6 Q. How much did you pay?

7 A. (Bowes) Fair market value.

8 Q. For that piece of square --

9 A. (Bowes) So, the process we used was we had  
10 independent appraisers appraise the property.  
11 And, if it was just a temporary use of their  
12 property, they were paid something different.  
13 But, if it was a permanent use, with an  
14 easement restriction on the property, then it  
15 was a different -- a different fee. But it was  
16 set by independent appraisals of the property  
17 and the market conditions at that time.

18 Q. And why isn't this the case in New Hampshire?  
19 Why aren't the people along the underground  
20 route being paid?

21 A. (Bowes) So, if we use their property, we are  
22 willing to do that.

23 Q. You're willing to pay individual landowners  
24 along the underground route for the use of

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           their property?

2   A.     (Bowes) If we go outside the DOT right-of-way,  
3           which is the case in Connecticut.

4   Q.     No, I'm talking about -- yes, okay. If it was  
5           outside the right-of-way, you're willing to do  
6           that.

7   A.     (Bowes) Yes, we are.

8   Q.     Why aren't you willing to do it if it's in the  
9           right-of-way?

10  A.     (Bowes) Because it's already within the  
11           right-of-way.

12  Q.     But I represent to you that the DOT controls  
13           the land through easement, not Eversource. And  
14           that the DOT possibly could add stipulations,  
15           like direct payment to landowners, in the light  
16           of the circumstances where Eversource has  
17           received a plethora of variances, which, in  
18           fact, if you didn't have, this project would be  
19           dead on arrival.

20  A.     (Bowes) So, again, I'm not sure there's a  
21           question --

22                   CHAIRMAN HONIGBERG: Yes. I'm not  
23           sure there's a question there either.

24                   MR. NEEDLEMAN: And I'm going to

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 object at this point, because this all relates  
2 to legal issues about the scope of the use of  
3 the right-of-way, which have been the subject  
4 of extensive litigation already.

5 CHAIRMAN HONIGBERG: Yes. I don't  
6 know. Do you have a question for the witnesses  
7 regarding this topic?

8 MR. LAKES: Well, I guess, you know,  
9 what I'm trying to put together here is, you  
10 know, that the landowners own the land, and I  
11 know this is getting into the legal stuff, but,  
12 you know, people in Connecticut were paid to  
13 have these vaults put into their land.

14 CHAIRMAN HONIGBERG: Well, why don't  
15 you ask them if that's true.

16 MR. LAKES: It is true.

17 CHAIRMAN HONIGBERG: Why don't you  
18 ask them. You're not under oath right now,  
19 they are.

20 BY MR. LAKES:

21 Q. Well, again, as you stated, or the people in  
22 Connecticut paid for the placement of the  
23 vaults in their yards, correct?

24 A. (Bowes) Again, they were paid when it was

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 outside of the DOT right-of-way.

2 Q. Right.

3 A. (Bowes) And we are willing to do that, as  
4 necessary, with Northern Pass. If you want to  
5 grant us temporary construction rights or  
6 permanent easement rights to place facilities  
7 on your property, outside of the DOT  
8 right-of-way, we're willing to talk about that.

9 Q. Okay. We'll move on. What happens to these  
10 splice vaults when the line is decommissioned?

11 A. (Bowes) So, as part of the Decommissioning  
12 Plan, we will follow the rules that are in  
13 effect today, which means removal down to 48  
14 inches below grade for the splice enclosures.  
15 And I believe we have said the duct banks would  
16 remain intact as they are today, or as they  
17 would be when the Project was retired.

18 Q. So, let me understand that. You're saying that  
19 the splice enclosures, which I call "splice  
20 vaults", they're going to be removed four feet  
21 down?

22 A. (Bowes) Correct.

23 Q. So, these are basically broken in half, I guess  
24 is what you're saying? You're taking half of

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 it out?

2 A. (Bowes) Approximately, yes.

3 Q. So, the remainder of that vault will be the  
4 responsibility of who, if for some reason work  
5 needs to be done, that goes deeper than the  
6 four feet?

7 A. (Bowes) The entity that is doing the work at  
8 that point.

9 Q. So, it could be the DOT or it could be the  
10 landowner that would have to find some way to  
11 remove that thing?

12 A. (Bowes) That is correct, I believe.

13 Q. Okay. At the horizontal drilling sites, you  
14 say "three to five weeks of preparation and  
15 drilling". Then there will be a period of time  
16 when prep work will proceed and follow the  
17 cable installation. Is this another three to  
18 five weeks? In other words, just getting back  
19 to the hydraulic -- I should call it the  
20 "horizontal drilling" part, the time frame  
21 involved with each one of those is what?

22 A. (Scott) Can you be more specific?

23 Q. Well, I'm looking for a general time frame  
24 around horizontal drilling?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Scott) Okay. I believe we've previously  
2 addressed that. But, typically, it's in the  
3 three- to five-week, most likely the five-week  
4 time frame.

5 Q. Now, that's just the drilling portion, correct?

6 A. (Scott) Correct.

7 Q. And, so, there's work that needs to be done  
8 before and after, which encompasses what length  
9 of time?

10 A. (Scott) What work activities are you --

11 Q. Well, you need to set up the equipment, you  
12 need to tear it down.

13 A. (Scott) That's including that.

14 Q. So, in three to five weeks, you're saying that  
15 you're completely done, --

16 A. (Scott) Correct.

17 Q. -- set up --

18 A. (Scott) So, with the drilling activities  
19 itself. So, that's setting up your equipment,  
20 drilling, pulling in your casing, filling it  
21 with grout, if a casing is used, of course.  
22 Basically, having the conduit installation  
23 ready for interception by open-cut trenching is  
24 the five-week time frame.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Now, when you do the horizontal drilling,  
2 you're placing a conduit into that hole, a  
3 larger conduit, of which the cables are going  
4 to then go in later. Is there a situation  
5 where you have to fuse or splice these pieces  
6 together?

7 A. (Scott) Correct. And that occurs at grade,  
8 prior to being pulled into place.

9 Q. And what's the time frame for doing that?

10 A. (Scott) That's included in that duration. So,  
11 if you look at the drawings we've shown, we  
12 show the work spaces where that particular  
13 portion of the work would take place. And,  
14 usually, that fusing of the conduits is going  
15 to take place within a week time frame in that  
16 overall five-week duration. And, so, that  
17 longer length of work space requirement is  
18 really only required during that portion of the  
19 installation, prior to those conduits being  
20 pulled into the drill path.

21 Q. Now, does that time frame also include the  
22 trenching and all of that type of activity?

23 A. (Scott) No, sir.

24 Q. So, how long is the trenching, which is,

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1            basically, you know, the set-up before you do  
2            the drilling?

3    A.    (Scott) Right. I believe we've previously  
4            discussed most of this. General durations for  
5            the splice pits are about a week, if there's a  
6            splice pit nearby. The trenching activities, I  
7            believe we've stated 20 feet per -- or, 20 feet  
8            per day to 100 feet per day will be pretty  
9            typical. So, trenching durations is dependent  
10           upon how long of an installation you're talking  
11           about.

12   Q.    I actually wasn't talking about that, but I'm  
13           sorry I misspoke. I meant the trenching to  
14           actually do the horizontal drilling?

15   A.    (Scott) So, the drilling portion takes place,  
16           it's completed. The drilling contractor walks  
17           away, essentially. And, then, an open-cut  
18           trenching contractor comes in and intercepts  
19           those conduits that have been installed by the  
20           drilling contractor.

21   Q.    Just quickly, I want to talk about the Micro  
22           Tunnel Project in Franconia. As was discussed  
23           before, you're going to put a 25-foot diameter  
24           by 30-foot deep hole in the intersection of

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Route 116 and Route 18, and a exit hole on the  
2 other side, roughly 20 feet in diameter by  
3 30 feet deep.

4 A. (Bowes) I think it's the other way. I think  
5 you just got those switched, but the dimensions  
6 are accurate. I think it's just the  
7 intersection of 116 and 18 I think is the  
8 20-foot diameter hole.

9 Q. Oh. Okay. I did have that reversed then.  
10 First explain why Micro Tunneling was chosen  
11 for this Project, as opposed to regular  
12 horizontal directional drilling?

13 A. (Scott) The simplest answer is the geometry of  
14 the roadway at this location. If you look at  
15 the drawings, we have to make pretty sharp  
16 90-degree bends to intercept the alignment to  
17 cross the river there. So, there's really not  
18 roadway geometry to do an HDD.

19 Q. So, you go down 30 feet on each side of the  
20 river, and then you need to, the way I  
21 understand it, trench -- dig a trench down to  
22 where that tunnel is on each side, is that  
23 correct?

24 A. (Scott) Correct.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. So, how is there road -- how is there room in  
2 the intersection to -- how long will this  
3 trench down to this 30-foot section be? And  
4 how can you fit it into the intersection?

5 A. (Scott) The exact duration, I don't believe we  
6 have a schedule for that yet. I think that the  
7 excavation will be closer to that 20-foot per  
8 day duration than the 100-foot per day  
9 duration. It's going to be significantly  
10 slower with the depth we're talking about.

11 As far as the other portions of your  
12 questions, I think that's more specific to  
13 traffic control issues, being able to divert  
14 traffic during the construction process and  
15 maintain traffic flow.

16 Q. So, after the trench is put in, down to the  
17 tunnel, then when is actually the -- I guess  
18 the conduit is going to be pulled through, is  
19 that the next step?

20 A. (Scott) So, essentially, during that Micro  
21 Tunnel process, the conduits are installed as  
22 well for the tunnel portion. And they're  
23 sitting there waiting to be intercepted by the  
24 open-cut trenching installation.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. And when will the cable actually be pulled  
2 through that location?

3 A. (Scott) So, once that's all -- that  
4 interception of conduit is complete, grade can  
5 be restored, and cable installation would take  
6 place from splice pit to splice pit.

7 Q. Is that going to happen sequentially or is that  
8 something that maybe you do the first year, and  
9 the second year you come back and do that?

10 A. (Scott) Correct. It could be either.

11 Q. Okay. So that --

12 *[Court reporter interruption.]*

13 **BY THE WITNESS:**

14 A. (Scott) That could be either, most likely not  
15 in the same season.

16 BY MR. LAKES:

17 Q. So, that intersection will be affected for a  
18 good portion of one season and the following  
19 season as well?

20 A. (Scott) I do not believe a splice pit is  
21 proposed near the intersection.

22 Q. Okay. Moving on, and this is where I'm going  
23 to be using my trusty friend here, Bob  
24 Thibeault, as the ELMO man. What I'm going to

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 put on here are some slides from Eversource's  
2 engineering firm, Burns & McDonnell. This is a  
3 case study with regard to your Middletown to  
4 Norwalk underground line in Connecticut. What  
5 you see before you is Slide Number APOBP 29. I  
6 don't know who came up with these initials, but  
7 they're tough. So, anyway, the cover page is  
8 basically "Overcoming Transmission Line Siting  
9 Challenges".

10 First, was this a reliability project in  
11 Connecticut?

12 A. (Bowes) Yes, it was.

13 Q. Did Eversource have the right to exercise  
14 eminent domain on this project?

15 A. (Bowes) Yes, we did.

16 Q. Moving onto the next slide, Number 30. I'm not  
17 going to say all those initials in front of it.  
18 These were -- this shows the options for  
19 crossing Ash Creek. And, so, I guess they  
20 looked at a bridge abutment first, and that was  
21 found to be unfeasible. HDD, horizontal direct  
22 drilling, had unacceptable risks due to mixed  
23 soil conditions, risk of construction failure,  
24 and release of drilling mud.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           Moving on to Slide 31. It was determined  
2           that the staging area for doing horizontal  
3           directional drilling was no good, as it  
4           involved demolition of a business and  
5           eliminated an entire parking lot.

6           And moving on to Slide 32. As an  
7           alternative, Eversource was going to  
8           construct -- sorry, I lost my place here.  
9           Well, they're going to construct a bridge over  
10          the creek, and -- okay. Yes. They were going  
11          to put a bridge, a supporting utility bridge  
12          over the river.

13          So, moving on to Slide 33, this was a  
14          visual representation of a mock-up of the  
15          utility bridge. But, apparently, from what I  
16          understand, this utility bridge that was  
17          proposed did not go over well. And, so, people  
18          petitioned the DEP to reconsider other  
19          alternatives.

20          First of all, the people on the panel are  
21          familiar with this project at all?

22   A.    (Bowes) Yes, I am.

23   Q.    Okay. Good.

24   A.    (Johnson) Yes, I am.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Good. So, moving on to Slide 34, it appears  
2 that horizontal directional drilling within the  
3 state roadway was agreed upon, after DEP  
4 hearings and extensive discussion with  
5 Fairfield, Bridgeport, Connecticut DOT and DEP,  
6 and a memorandum of understanding that all  
7 understood the impacts of HDD in the roadway.  
8 Is that correct? That's what finally everybody  
9 agreed upon, through extensive meetings and  
10 hearings and so forth?

11 A. (Bowes) Yes.

12 Q. What was in the MOU?

13 A. (Bowes) I'm not sure which MOU. The one there  
14 on the bottom? I don't know.

15 Q. So, there was a memorandum of understanding. I  
16 don't know what's in it either. I was hoping  
17 you could fill me in. But I would suspect it  
18 had something to do maybe with traffic being  
19 diverted and perhaps, because of the soil  
20 conditions underneath that bridge, that there  
21 may be issues with the drilling?

22 A. (Bowes) That's possible. I don't know what's  
23 in the MOU.

24 Q. Just a -- was that business demolished and the

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 parking lot eliminated that was spoken about  
2 earlier?

3 A. (Bowes) No, I don't believe it was.

4 Q. So, my point is this. One HDD site in  
5 Connecticut: Hearings with the DOT, hearings  
6 with the DEP, petitions, all sorts of activity,  
7 the towns of Fairfield, the towns of  
8 Bridgeport, all weighing in on this one HDD  
9 site.

10 We have 51 HDD sites in New Hampshire that  
11 is proposed in your proposal. Has there been  
12 one public meeting in New Hampshire with regard  
13 to HDD or alternatives similar to the process  
14 that I just spoke about in Connecticut?

15 A. (Bowes) So, I don't believe the process was the  
16 same here in New Hampshire, I would agree with  
17 that. But this was a really relatively unique  
18 situation. So, we looked at all alternatives,  
19 and we came to an agreement with multiple  
20 parties in this case. And, again, avoided  
21 taking someone's property and their business.  
22 And I believe, ultimately, was the best  
23 decision made to use an HDD, staying within the  
24 roadway.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Have any MOUs been developed through New  
2 Hampshire DOT or DES through public hearings  
3 with regard to the Micro Tunnel in Franconia,  
4 the trenching in Plymouth, and other river  
5 crossings, or for anything else with regard to  
6 this entire Project?

7 A. (Bowes) I would say "no". But there were many  
8 other crossings with Middletown/Norwalk that  
9 this did not occur either.

10 Q. But, when there was push-back and resistance,  
11 it appears to me that the DOT and the DEP in  
12 Connecticut responded to those calls?

13 CHAIRMAN HONIGBERG: Is that a  
14 question?

15 MR. LAKES: Yes.

16 **BY THE WITNESS:**

17 A. (Bowes) So, I believe, when we exhausted what  
18 we thought were technically feasible  
19 alternatives, we did include the permitting  
20 agencies in this case to develop a solution,  
21 which turned out to be constructible and  
22 satisfied multiple parties in this case. An  
23 example we were talking about now in Franconia,  
24 I believe the last public interaction we've had

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 with the town is now 18 months ago, although we  
2 continue to reach out to Franconia to look at  
3 solutions, maybe not this particular solution,  
4 but to look at solutions that would alleviate  
5 both the constructability issues of this  
6 crossing, as well as the traffic issues. We're  
7 willing to meet with Franconia. We've extended  
8 the invitation to join in an MOU with  
9 Franconia. We've extended the invitation to  
10 DOT that we will work with Franconia and the  
11 DOT for this crossing. Franconia is not  
12 present.

13 CHAIRMAN HONIGBERG: Off the record.

14 *[Brief off-the-record discussion*  
15 *ensued.]*

16 CHAIRMAN HONIGBERG: Go back on the  
17 record. We're going to break for ten minutes.  
18 We're going to need to take the lunch break at  
19 12:15 today, because Commissioner Bailey and I  
20 have some PUC business we need to attend to  
21 over on Fruit Street. So, we'll be back at  
22 11:15.

23 *[Recess taken at 11:03 a.m. and*  
24 *the hearing resumed at 11:16*

1 a.m.]

2 CHAIRMAN HONIGBERG: Mr. Lakes, you  
3 may continue.

4 MR. LAKES: Thank you.

5 BY MR. LAKES:

6 Q. I just want to diverge one second here from  
7 these exhibits that I have. I want to discuss  
8 eminent domain for a minute. I would think  
9 that Eversource would have been averse to using  
10 eminent domain -- I would think that Eversource  
11 would have been averse to using a heavy-handed  
12 approach like eminent domain, where possible  
13 anyway, is this correct?

14 MR. NEEDLEMAN: Objection.  
15 Relevance.

16 CHAIRMAN HONIGBERG: Mr. Lakes, why  
17 is this relevant?

18 MR. LAKES: Well, you're asking a  
19 question that is, if I can proceed a little  
20 further, I'll be able to make a point, but --

21 CHAIRMAN HONIGBERG: Humor me. What  
22 would the point be?

23 MR. LAKES: The point was going to be  
24 this. That, as we know, eminent domain --



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 CHAIRMAN HONIGBERG: Would not be  
2 allowed for this project.

3 MR. LAKES: That's correct.

4 CHAIRMAN HONIGBERG: Under state law.

5 MR. LAKES: That's correct.

6 CHAIRMAN HONIGBERG: So, your point  
7 would be what?

8 MR. LAKES: Well, what I'll do is  
9 I'll represent to you that eminent domain is  
10 really not necessary here in New Hampshire.  
11 And the reason why is that the DOT and the DES  
12 has acceded eminent domain to Eversource  
13 through a policy of acquiescence.

14 CHAIRMAN HONIGBERG: That sounds an  
15 awful lot like a legal argument that I'm not  
16 sure these witnesses can help you with. But do  
17 you have a question that would get you anywhere  
18 near there that you could ask these witnesses  
19 on the construction panel?

20 MR. LAKES: I think that's going to  
21 be a hard question to ask.

22 CHAIRMAN HONIGBERG: I think you're  
23 probably right about that.

24 MR. LAKES: So, I will move on.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 BY MR. LAKES:

2 Q. So, moving to Slide 7, and here is where my  
3 numbers diverge, because it's actually Slide  
4 35. I'll just say the next slide, I can see it  
5 from here, is 35. I forgot to update my  
6 numbers. What I have here again is getting  
7 back to the work done in Connecticut. And this  
8 is the primary horizontal directional drilling  
9 work space in yellow, and the conduit assembly  
10 work space in blue, that was set up on one side  
11 of the Ash Creek. I believe this is the exit  
12 side, am I correct on that?

13 A. (Johnson) That looks about right, if the --

14 Q. Because I'm thinking, if the conduit is on  
15 the --

16 A. (Johnson) Yes. It would be pulled back through  
17 the hole.

18 Q. Right.

19 A. (Johnson) Yes.

20 Q. Right. So, it looks like Eversource utilized  
21 two lanes of a four-lane road, and even then  
22 had to go significantly off the road. Why did  
23 you need this extra space in yellow that goes  
24 beyond the two lanes, seems to hunker into a

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 couple of different areas?

2 A. (Johnson) I don't know the specifics of this  
3 work zone, nor the contractor that did this  
4 work. And I guess it was available to him, so  
5 he used that work space.

6 Q. Well, I guess my question is, how is it that  
7 Eversource claims it only needs one lane to do  
8 HDD in all of the New Hampshire HDD jobs?

9 A. (Bowes) So, I think, in this case, it was the  
10 size of the HDD. It was a single bore, I  
11 believe, and the number of conduits and cables  
12 in this case. There were six cables, versus  
13 the two cables we're planning for Northern  
14 Pass. Just physical dimensions, I believe.

15 Q. Do you remember the size of the actual drilling  
16 hole?

17 A. (Bowes) I do not. I know it had to be bigger  
18 than the 18 inches that we're using for  
19 Northern Pass.

20 Q. But the space being used here is fairly  
21 significant. It sounds like you needed extra  
22 equipment and whatnot, conduit and so forth, to  
23 have a larger work area. So, you're saying  
24 that you're very -- that you feel that the one

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 lane that you are calling out in New Hampshire  
2 to do the HDD is sufficient?

3 A. (Bowes) That is correct.

4 Q. So, you will not have to go off the road?

5 A. (Scott) So, if I could add, the proposed work  
6 zones are shown on the plans for each of these  
7 locations.

8 A. (Bowes) So, I should probably restate. We'll  
9 be able to keep a lane open, rather than "stay  
10 within one lane".

11 Q. So, you'll be able to keep a lane open, but  
12 for, I would assume, maybe many of these HDD  
13 drilling locations, that you will have to  
14 utilize land off of the highway, into the  
15 right-of-way?

16 A. (Bowes) Within the right-of-way, yes.

17 Q. Within the right-of-way. So, that may require  
18 that -- you know, some of these laydown areas,  
19 from what I've seen, are pretty long. Can be  
20 two, three, four hundred feet long, is that  
21 correct?

22 A. (Bowes) Yes. Or, you know, per the dimensions,  
23 some even longer.

24 Q. So, does that mean, if you need extra space off

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 of the edge of the highway, trees, land will be  
2 leveled, various things that could get in your  
3 way need to be removed?

4 A. (Bowes) So, we've identified the work spaces,  
5 and I don't believe any of those situations  
6 occur that you just described, where we have to  
7 take trees or remove stonewalls or buildings or  
8 anything else.

9 Q. Can we get that in writing?

10 A. (Bowes) Well, it's in the Application. So,  
11 it's drawings approved by the DOT. So, that is  
12 the writing.

13 Q. Okay. I understand the drawings are approved  
14 by DOT. But, once you get out into the field,  
15 things change. And then what is the course?  
16 Do you have to get a variance from DOT?

17 A. (Bowes) So, there is a provision in place to,  
18 including up until construction, and even  
19 during construction, to seek a variance from  
20 the DOT. At this point, we haven't identified  
21 any that we haven't already filed with the DOT.  
22 But, for example, we talked before, if you're  
23 willing to allow us a construction easement on  
24 your property, and that facilitates the

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Project, we would take that, along with your  
2 statement, to the DOT and ask for that  
3 variance.

4 Q. Okay. So, next slide, which I guess is 36,  
5 this was the entry point for the HDD, again,  
6 utilized two lanes of road and dipped off the  
7 road. And, as you said, that perhaps all of  
8 this was needed because of the extent of the  
9 job.

10 Let's move on to the next slide. Now,  
11 this refers to construction duration for each  
12 HDD drilling zone. Now, it says at the top  
13 "five months", "five months to complete each  
14 ADD" -- or "HDD operation". I'm not sure if  
15 I'm comparing apples and oranges to some  
16 degree, but, you know, looking at this  
17 five-month duration, how does that compare to,  
18 say, the HDD that's proposed to go under the  
19 river in the Plymouth location and near Tenney  
20 Mountain Highway? And can you, you know, run  
21 down the sequences that are shown there, and  
22 compare that to the HDD that's going to be  
23 done, say, in that location. For instance,  
24 there's certain things, like "30 days to ream a

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 pilot hole", "45 days to fuse conduits for  
2 pull-back", "12 days for cleaning and testing  
3 conduits". It sounds like there's a lot  
4 involved there.

5 How is it that we're talking "three to  
6 five weeks" in New Hampshire and we're talking  
7 "five months" in Connecticut?

8 A. (Scott) Sure. I can generally address your  
9 question. I think we've illustrated we don't  
10 know the exact specifics of this installation  
11 off the top of our heads. But, in your  
12 analogy, we're not comparing apples to oranges,  
13 we're comparing apples to orangutans. This is  
14 a very large drill, very large diameter, lots  
15 of conduits, in a heavily trafficked location.  
16 So, the durations shown here, just it's  
17 completely different order of work that we're  
18 doing. We're not drilling, let's say, a  
19 48-inch, 54-inch diameter hole. We're drilling  
20 a 12-inch, 18-inch diameter hole, and we're  
21 doing two of those for most of these HDDs.  
22 We're installing two conduits, as opposed to, I  
23 would assume, eight or more conduits. That  
24 impacts all of those durations that you're

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 discussing right there accordingly.

2 Q. Okay. Just to be clear, so, you're saying  
3 that, on the HDD that you're doing in New  
4 Hampshire, you're going to be drilling two  
5 18-inch holes?

6 A. (Scott) As shown in the plans, yes.

7 Q. Two 18-inch holes?

8 A. (Scott) Let me check real quick. Yes,  
9 approximately 18-inch holes.

10 Q. How many frac-outs did you have in this  
11 Connecticut job in the Ash Creek and the  
12 Saugatuck River?

13 A. (Bowes) I don't believe there were any in Ash  
14 Creek. I'm not sure if there was any in the  
15 Saugatuck either. I believe there was one on  
16 this project, the Housatonic.

17 Q. Let's put up the next slides. This is the  
18 Saugatuck River crossing. And, then, let's  
19 move on to the next slide, we won't talk about  
20 the Saugatuck. And, basically, Slide -- this  
21 Slide Number 39 is a summary of the crossing,  
22 apparently successful, except it does mention  
23 there that you had frac-outs of bentonite and  
24 polymer fluids, if you go to the bottom of that

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 sheet. "Frac-outs cleaned up with no impacts  
2 to coastal/environmental resources." So, did  
3 you have frac-outs with either one or both of  
4 these rivers?

5 A. (Bowes) I know there was one on the project. I  
6 thought it was in the Housatonic River. But,  
7 apparently, based on this slide, it was the  
8 Saugatuck.

9 Q. So, were first responders immediately available  
10 to clean up?

11 A. (Bowes) I believe they were, yes. If you want  
12 to share the entire presentation, we can  
13 probably get some context around many of these  
14 questions.

15 Q. Yes. I don't know that it actually went in  
16 that deep. This is more of a summary. It  
17 didn't really say specifics. I was hoping  
18 maybe you could add to that.

19 A. (Johnson) So, I will add that they had a HDD  
20 frac-out plan, similar to what we've proposed  
21 on this Project. They had the appropriate  
22 equipment available and ready to be mobilized  
23 should a frac-out occur. Based on the last  
24 statement there, it seems like, when they

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 discovered the frac-out, they were able to  
2 mobilize that equipment immediately and contain  
3 such that there was no coastal or environmental  
4 impacts.

5 Q. Yes. So, it does say "frac-outs". So, it  
6 sounded like there's more than one.

7 A. (Bowes) I was aware of a single one.

8 Q. What equipment -- well, it says "frac-outs".  
9 What equipment was available to keep this from  
10 spreading?

11 A. (Johnson) So, I don't know specifically. In  
12 general, it would have been booms, the type of,  
13 you know, tubes that you see. There could have  
14 been curtains that will then hang down to stop  
15 fluid moving through, you know, vacuum pumps,  
16 *etcetera*. There was most likely some sort of  
17 vessel that would be able to go into the water,  
18 again, to determine or ascertain the length and  
19 where these booms need to be placed. But I  
20 don't know the specifics of what else was  
21 there.

22 A. (Scott) Right. For this Project, it will be  
23 site-specific. So, we're doing  
24 pre-construction design that will ideally

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 identify potential inadvertent return locations  
2 prior to construction. And, so, we will be on  
3 high alert at those particular locations more  
4 so than in general. But our inadvertent return  
5 plan will essentially address the different  
6 types of scenarios that the contractors will be  
7 able to implement in case of an inadvertent  
8 return.

9 Q. Right. We'll talk about that a little later.  
10 Moving on. DOT is requiring the depth of the  
11 transmission line to be deeper than NPT would  
12 prefer. NPT would like a 4 feet or less depth,  
13 where DOT wants it to be roughly, based on the  
14 charting I've seen, 6 to 8 feet deep. Is that  
15 correct?

16 A. (Bowes) I think it's 5 to 6 feet is what DOT  
17 has requested, depending on the type of road.

18 Q. I believe in the --

19 A. (Johnson) So, just to clarify.

20 Q. Yes. Go ahead.

21 A. (Johnson) The DOT has prescribed what they call  
22 the "structural box", which is basically the  
23 roadbed, if you will. For certain tiers of  
24 roads in the state, they have a 24-inch minimum

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 cover, and for other roads they have a 36  
2 minimum cover. Our facilities would then be  
3 placed below that. And the other restriction  
4 is in the ditch line, where they have a minimum  
5 of 48 inches. And that's all contained in  
6 the --

7 Q. Yes.

8 A. (Johnson) -- the April 3rd letter.

9 Q. In the Connecticut underground installation,  
10 DOT wanted the line 8 feet under the ground.  
11 However, Eversource said, at 8 feet depth, the  
12 cable would not be able to dissipate heat  
13 properly and would lose significant efficiency.  
14 Can you tell me the final depth of the cable  
15 that was placed in Connecticut?

16 A. (Johnson) It varied all over the place, from  
17 6 feet, down to probably 36 feet, depending  
18 where you were and what utility conflicts that  
19 we came across.

20 Q. Is NPT trying to get a variance on the depth of  
21 the underground cable from DOT?

22 A. (Johnson) In certain places, yes. But, again,  
23 you know, our cable is going to be anywhere  
24 from 6 to -- I don't know how big the deepest

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 drill is, but it could be up to 65 feet deep.

2 A. (Scott) I believe our maximum depth is the  
3 Connecticut River crossing, about 75 feet of  
4 cover.

5 Q. Okay. Moving on. HDD, horizontal directional  
6 drilling, uses bentonite and drilling fluids  
7 made up of polymer additives for lubrication.  
8 Are you aware that these materials have been  
9 found to be toxic to fish and invertebrates,  
10 and can negatively affect the aquatic  
11 environment?

12 A. (Bowes) I am not. But it's probably a very  
13 good question for the environmental panel.

14 Q. So that I have to ask the question, you know,  
15 being people that do construction and use these  
16 materials, I'm surprised that you wouldn't  
17 know --

18 A. (Bowes) So, I deferred to the environmental  
19 panel, because I'm not even sure your question  
20 is accurate. So, --

21 Q. It is accurate. Are you aware that the fluid  
22 polymer Accu-Vis that was used with the  
23 bentonite contains carcinogens possibly harmful  
24 to humans?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) Again, I don't have any knowledge of  
2 the polymers or the fluids that are used  
3 besides the bentonite.

4 Q. Have you supplied MSDS sheets to conservation  
5 commissions and/or selectboards to all towns  
6 along the underground route stating the type of  
7 bentonite and additive mix to be used for HDD?

8 A. (Scott) So, at this time, no additives have  
9 been approved by the Project. The general  
10 process that's followed is we put out the bids  
11 for that installation. The installers propose  
12 their -- essentially, their slurry mixes, which  
13 are bentonite-based. If they want to use any  
14 add mixtures, those would be proposed at that  
15 time. And, if MSDS sheets are applicable to  
16 any of those add mixtures, then they would be  
17 included at that proposal time.

18 Q. And, so, will that be distributed to  
19 conservation commissions and selectboards to  
20 towns all along the route, so all people know  
21 exactly what this material is made of, and the  
22 possible health effects from this material?

23 A. (Scott) I would say that they're going to meet  
24 the permit requirements and have to be approved

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 by the Project. Beyond that, I would have to  
2 defer to Mr. Bowes.

3 A. (Bowes) I would say we would make them  
4 available, certainly, to the workers, as  
5 required by regulation. We'd make them  
6 available to the DES. And we could certainly  
7 provide a posting of those materials on our  
8 website.

9 I'm not sure that your assertion that,  
10 just because we provide them to a certain  
11 government agency in a town, that all residents  
12 will get them. We can certainly make them  
13 publicly available.

14 Q. Well, you know, I wasn't saying that every  
15 resident should get one. But, certainly,  
16 conservation commissions and selectboards,  
17 which are the leaders of the community, should  
18 have information directly given to them by  
19 Eversource, so that everybody is on the same  
20 page, in terms of what these materials are and  
21 their possible consequences. Would you agree  
22 with that?

23 A. (Bowes) I do agree. And that will be an ideal  
24 condition to put in the MOU that we have with

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 the towns.

2 Q. Do we have MOUs with towns now?

3 A. (Bowes) Yes, we do.

4 Q. What's the MOU that you have with Easton?

5 A. (Bowes) We would not have one at this point.

6 Q. Oh. Okay. So, you don't have them with all  
7 the towns?

8 A. (Bowes) No. But it certainly could be  
9 something we include in that.

10 Q. All right. Moving on. While performing  
11 horizontal directional drilling, is there the  
12 possibility of hydro fracture or frac-out of  
13 bentonite and polymer additives that could  
14 contaminate wetlands, aquifers, well water,  
15 streams, and rivers?

16 A. (Scott) There is certainly the potential for  
17 inadvertent returns. However, as previously  
18 discussed, the specifics of that slurry mixture  
19 are where I would disagree. I don't know what  
20 that will be yet.

21 Q. Please say your last statement, I didn't  
22 quite --

23 A. (Scott) I don't know the specifics of what that  
24 bentonite mixture will be at this time, but

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           that it would be bentonite-based. So, your  
2           specific add mixtures that you're referring to,  
3           I will not say that that's necessarily going to  
4           be something that could be part of the  
5           inadvertent return without seeing the proposed  
6           mix designs.

7   Q.    So, is it Eversource's position that it will  
8           find a bentonite fluid mix that will have no  
9           adverse effect on any wildlife, any aquifers,  
10          or anything at all? Do you have something that  
11          we should know about that is completely safe  
12          for people and aquatic life?

13   A.    (Scott) I know that bentonite itself is safe.  
14          It's not necessarily a native material for all  
15          locations. However, it's used in kitty litter,  
16          people use it for digestive aids, etcetera.  
17          And, as far as the add mixtures, again, I don't  
18          know what those proposed add mixtures will be  
19          or the specific line that the Project will take  
20          on approval of those.

21   Q.    But isn't it true that the add mixtures,  
22          basically, but that the add mixtures are fluids  
23          to lubricate the drilling, and that the ones  
24          that at least I've seen, unless there's

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 something that is out there that is not known  
2 at this time, all have ingredients that can be  
3 harmful?

4 A. (Bowes) I guess we don't know that.

5 Q. You don't know that?

6 A. (Bowes) We do not know that. That's correct.

7 Q. So, you're working with material, drilling 51  
8 sites in New Hampshire, and you don't know  
9 whether the material you're using --

10 A. (Bowes) No.

11 Q. -- could be harmful?

12 A. (Bowes) No. That's not what I said. I don't  
13 know the facts -- the question you just  
14 presented with certain facts is actually a  
15 accurate question.

16 Q. Well, I'm going to leave, you know, some of the  
17 more direct questioning with regard to the MSDS  
18 sheets on these materials a little bit up the  
19 road for the environmental folks. But suffice  
20 to say there is surprise, at least from the  
21 person standing here, that you do not know the  
22 effects of these materials.

23 A. (Bowes) I think you're mischaracterizing my  
24 response. My response was I did not agree with

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 your question.

2 Q. As mentioned earlier, NPT has a basic hydro  
3 fracture mitigation plan in place to at least  
4 minimally mitigate a frac-out situation. Will  
5 frac-out releases be mitigated with assistance  
6 from DES?

7 A. (Bowes) Only if necessary, yes.

8 Q. So, what is necessary?

9 A. (Bowes) If we're unable to control it, which I  
10 don't think will be the case. If a inadvertent  
11 return were to occur, we'll have a  
12 site-specific plan in place, and we will  
13 execute that plan.

14 Q. Will a vacuum truck or trucks, fully loaded  
15 with booms and collection equipment, be  
16 available at all times to mitigate frac-out  
17 along the whole route?

18 A. (Bowes) So, what do you mean by a "fully loaded  
19 vac truck"?

20 Q. Well, I guess maybe I'm embellishing here a  
21 little bit. I guess a vacuum truck, and then  
22 material, such as booms and other things, that  
23 will be immediately available to be deployed  
24 upon a release of fracking material?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

- 1 A. (Bowes) So, based upon the site-specific  
2 location, we will have a plan in place. It may  
3 include all of those items. But at every  
4 location I cannot say that that will be the  
5 requirement that we develop. There may be some  
6 locations where we have additional  
7 requirements. For example, I think we  
8 mentioned an access to a boat, an access to a  
9 dive team. All of those things may be in  
10 place, depending on the individual  
11 circumstances that we uncover at that site.
- 12 Q. So, what you're telling me is that you may  
13 determine that a particular site will not have  
14 any issues with frac-out or minimal, so you  
15 will not have equipment there to contain that.  
16 And that there could be a blowout, very  
17 significant, into a wetland, which are near  
18 people's houses and wells and so forth, and  
19 that there will be no equipment available at  
20 those times, if you determine that you didn't  
21 need it there, and that it could be many hours  
22 before a rig shows up to try to minimize the  
23 frac-out?
- 24 A. (Bowes) No. That is not what I said.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Scott) So, if you look at Mr. Kayser's  
2 prefiled testimony, he specifically has an  
3 operations monitoring plan for HDD crossings  
4 provided there, which provides a lot of the  
5 requirements that will be put upon the  
6 contractor for all HDD installations.

7 So, to answer the general question, the  
8 contractor will be required to monitor and plan  
9 for potential inadvertent returns during the  
10 construction process at all locations.

11 Q. So, if there is a frac-out, and somebody's well  
12 gets contaminated, or the aquifer gets  
13 contaminated and so forth, who is responsible?  
14 The construction entity or is Eversource?

15 A. (Bowes) Ultimately, Northern Pass is  
16 responsible.

17 Q. Is this not by far the biggest number of  
18 individual HDD sites ever undertaken by  
19 Eversource?

20 A. (Bowes) I would say, on one particular project,  
21 that is true. But we do HDD sites every single  
22 day, for gas line installation and electric  
23 service installation. So, it's a very common  
24 practice.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Okay.

2 A. (Bowes) But, for a transmission project, all in  
3 one time, one scope, I think it's probably the  
4 largest.

5 Q. Has NPT done geotechnical boring at all HDD  
6 sites' entry and exit locations?

7 A. (Scott) Yes. And, in some cases, in the middle  
8 of that proposed HDD as well.

9 Q. Would you agree that the success of the HDD  
10 process is enhanced where proper depth of the  
11 horizontal bore and knowledge of the  
12 underground strata assists the operator and  
13 lessens chance of failure?

14 A. (Scott) In general, yes.

15 Q. What type of soils were found with the  
16 geotechnical boring along the 51 different HDD  
17 sites?

18 A. (Scott) I would say that they vary specific to  
19 the site in question. And, if you would like  
20 to provide the geotechnical bores, we can  
21 certainly discuss them.

22 Q. Well, that's my next question. Was this  
23 geotechnical boring information directly shared  
24 with town conservation commissions for

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 discussion?

2 A. (Johnson) It was provided as a response to a  
3 data request and posted publicly for anyone to  
4 get.

5 Q. Wouldn't it have made sense to actually  
6 physically bring the information on  
7 geotechnical boring to the conservation  
8 commissions, which, let's face it, you know,  
9 we're not professionals in that area? Wouldn't  
10 it have made sense for you to come, sit down,  
11 explain exactly what those logs said and what  
12 the meaning of it was, in terms of each ADD --  
13 HDD drilling?

14 A. (Bowes) Certainly something that we would  
15 respond to, if a town requested it. As I  
16 mentioned before, there are some towns that we  
17 haven't had any official correspondence with  
18 for more than 18 months. We keep reaching out.  
19 It takes two to do that.

20 Q. All right. Let's move on. When the drilling  
21 operator of the HDD unit needs to go deeper,  
22 depending on soil strata and progress, if the  
23 drilling operator is forced to dig deeper, say  
24 they're halfway through their drilling, and

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 he's forced to go deeper, is there a  
2 geotechnical boring done at that point, to make  
3 sure that, when he goes deeper, that there may  
4 not be a frac-out? In other words, if the  
5 driller is going outside of the scope of what  
6 was determined for doing that HDD depth, what  
7 is the process that occurs at that point?

8 A. (Scott) I mean, typically, the depths of the  
9 geotechnical investigation done are done to an  
10 approximate depth of 10 feet below the proposed  
11 bore installation depth.

12 And, to address your question of, if they  
13 have to go deeper than currently proposed,  
14 generally deeper is better, you have less risk  
15 of a inadvertent return when you're deeper than  
16 when you're shallower. Soils are typically  
17 more cohesive the deeper you go.

18 Q. But you're not sure, right?

19 A. (Scott) There is always some uncertainty.

20 Q. That's right. And the people along this route,  
21 with 51 HDD drilling units, will be left to  
22 chance, if everything doesn't add up in terms  
23 of what your boring logs show. Is that  
24 correct?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Scott) I would say that detailed design and  
2 best practice construction techniques will be  
3 used to mitigate potential inadvertent returns  
4 that could occur.

5 Q. Moving on. Do you know if there were any  
6 frac-outs with any of the geotechnical borings  
7 along the underground route?

8 A. (Johnson) To my knowledge, no.

9 Q. Are you aware that, when crews were doing  
10 geotechnical hole boring on Route 112, they had  
11 a serious frac-out issue, which was documented  
12 by a local resident, who is in this room today,  
13 actually, who took photographs, of which we're  
14 going to put on the ELMO right now. Notice  
15 that hazy section. To the left, where I had  
16 written the exhibit number, that's just bright  
17 sunlight there. But, in the middle section,  
18 that cloudiness is a frac-out. To the right of  
19 that, the water is clear. You can see to the  
20 bottom.

21 Do you realize that this frac-out occurred  
22 at Stark Falls Brook, which feeds the wild  
23 Ammonoosuc River, which, in turn, is the main  
24 water supply for Woodsville? Are you aware of

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 that?

2 A. (Johnson) I'll take your word for it.

3 Q. So, this was a 3-inch, a 3-inch geotechnical  
4 bore hole, vertical. And we're going to be  
5 talking about two 18-inch HDD holes next to  
6 each other running through these same areas.  
7 Could it be possible that there could be  
8 frac-out as a result?

9 A. (Bowes) I mean, it's possible, yes.

10 Q. So, it is possible that, with this little  
11 frac-out that you see here, could be magnified  
12 100 times, going into water that is feeding the  
13 Town of Woodsville. Is that possible?

14 MR. NEEDLEMAN: Mr. Chair, I'm going  
15 to object to this exhibit. There's no  
16 documentation at all linking this to any work  
17 that the Project has done. It's simply Mr.  
18 Lakes' assertion.

19 CHAIRMAN HONIGBERG: Mr. Lakes.

20 MR. LAKES: I don't know, can I bring  
21 up the person who actually did this?

22 CHAIRMAN HONIGBERG: Not right now,  
23 because this is your opportunity to ask this  
24 panel questions. If you want to represent to

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           them something about it and ask them to assume  
2           that's what it is, we'll allow you to do that.

3                        But you are not in a position to tell  
4           us, you're not under oath, nor is whoever you  
5           would call up. They are under oath, it's your  
6           turn to ask them questions.

7                        So, if you want them to assume that  
8           this is what you say it is, it sounds like Mr.  
9           Johnson anyway is willing to accept that  
10          premise for the purposes of answering  
11          questions.

12                       MR. LAKES: All right. There's  
13          really nothing more I can add.

14 BY MR. LAKES:

15 Q. Please put up the next slide, which I believe  
16          is -- is it 41? Can you zoom in on that, Bob?

17                       MR. THIBEAULT: I don't know.

18                       MR. LAKES: There you go. Just pull  
19          it down a little bit now. There you go. Now  
20          pull it down, more towards me. There you go.

21                       CHAIRMAN HONIGBERG: Off the record.

22                                *[Brief off-the-record discussion*  
23                                *ensued.]*

24 BY MR. LAKES:

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. Well, this is just for an example of a frac-out  
2 that occurred in Ohio, with Ohio -- with Energy  
3 Transfer Partners. And this one leaked  
4 millions of gallons. I would suspect that this  
5 job was a lot bigger than what we're talking  
6 about with the 51 HDD drillings that are going  
7 to be happening. But this is an example of a  
8 frac-out. This is what could happen, perhaps  
9 on a smaller scale, filling wetlands, and this  
10 was high-quality wetlands in Ohio. This is the  
11 type of mess that could be produced through  
12 HDD. And we're going to have 51 opportunities  
13 in New Hampshire to find out whether we're  
14 going to be part of that. And, so, I guess I  
15 would just ask the panel, does this look like  
16 what a frac-out could look like?

17 A. (Bowes) I have never seen a picture like this  
18 before, so -- and I know we're not using  
19 several million gallons of material on this  
20 Project.

21 Q. Very good. Okay, Bob, you can take that down.  
22 Isn't it a fact that frac-out material can  
23 appear great instances from the actual  
24 drilling, hundreds of feet away? Is it

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 possible to have a frac-out and not even be  
2 aware of it?

3 A. (Scott) Typically, they will be aware of it.  
4 They will have noticed the difference in the  
5 fluid they're putting into the bore holes  
6 versus what's coming back, especially if it's  
7 able to make its way to the surface.

8 Q. But there is a possibility that the frac-out  
9 could be 400 feet down the road?

10 A. (Scott) I'd say it's unlikely.

11 Q. But it is likely -- it is possible?

12 A. (Scott) It's possible.

13 Q. When doing HDD, and I will be changing subjects  
14 a little bit now, there is a large generator  
15 providing power. How large is the generator  
16 that you use for the HDD?

17 A. (Scott) I couldn't say off the top of my head.

18 Q. Is this a diesel generator?

19 A. (Scott) Again, I could not say off the top of  
20 my head.

21 Q. So, it sounds to me like Eversource does HDD  
22 every day, from what Mr. Bowes said, but it  
23 sounds like, at least from what I'm hearing,  
24 that there's not a familiarity with some of the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 actual construction tools, is that correct?

2 A. (Bowes) I don't know if I'd characterize that.  
3 Now, there are other fuel types, but diesel is  
4 probably the most common, especially for a  
5 larger, say, 10 to 50 kW generators, which  
6 would be typical for various rigs.

7 The discussion I had previously was  
8 around, you know, very small driveways and  
9 services. So, those are a very small drill  
10 rig, you know, usually towed by a pickup truck.  
11 So, in this case, for this Project, they're  
12 much larger pieces of equipment.

13 Q. So, in my investigation of HDD, I've learned  
14 that the decibel level of these generators is  
15 100 decibels, where 60 decibels is considered  
16 loud and unacceptable. How will this be  
17 mitigated?

18 A. (Bowes) So, as part of the Department of Energy  
19 Draft EIS, a complete sound level was done for  
20 this Project, including the underground  
21 sections. And, without getting into specific  
22 numbers, they vary quite differently from what  
23 you've just said. They indicated an  
24 approximately 83 decibel rating for the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 equipment, not the 100 that you're indicating.  
2 Could be just the type of mufflers that you  
3 found in your studies. But the study that the  
4 DOE performed said that there would be impacts  
5 based on noise levels, but not significant  
6 adverse impacts, and they would be temporary in  
7 nature.

8 Q. I thought that, and I wasn't here for that, but  
9 that your person who described noise and that  
10 sort of thing only did the study for the  
11 aboveground, and not the underground section.  
12 Is that correct?

13 A. (Bowes) He did not repeat a study for the  
14 underground. We accept what's in the DOE  
15 report. I think it was a well-prepared report.  
16 And I think that the -- the analysis that they  
17 did as part of that is sufficient for the  
18 underground portions of this Project. It  
19 identifies all the equipment, it identifies the  
20 receptors along the route, and it identifies  
21 the impacts that noise will have.

22 Q. Will acoustic curtains be used around the  
23 generators?

24 A. (Bowes) It's possible they will. It depends on

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 the proximity to neighbors.

2 Q. Since you are using more than likely, as you  
3 said, a diesel generator, this could produce an  
4 offensive smell. So, for three to five weeks,  
5 you know, for up to three to five weeks, which  
6 will be objectionable to residents, how will  
7 this be mitigated?

8 A. (Bowes) So, I would say that the majority of  
9 vehicles on this Project, the larger vehicles  
10 will be diesel in nature. So, and there could  
11 be sensitivity to that, from both the workers,  
12 as well as neighbors, and we'll try to work on  
13 a case-by-case basis. I can't really answer a  
14 hypothetical. All I can say is that we'll try  
15 to work with the local residents to mitigate  
16 both noise and any other environmental impacts.

17 Q. Well, since you've done this before, it sounds  
18 like hundreds and hundreds of times, what have  
19 you done in the past to mitigate that?

20 A. (Bowes) I have never had a condition outside a  
21 worker complaint around the diesel fumes.  
22 Around diesel fumes, when it's a worker  
23 complaint, we look to make sure that they take  
24 breaks outside the work zone and are not right

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 next to the exhaust systems.

2 Q. Once the HDD process is started, is the  
3 generator turned off at the end of each day or  
4 must it run around the clock?

5 A. (Bowes) So, I think what we have proposed is  
6 workhours that are 7:00 to 7:00. And, if we  
7 were to extend those, we would ask for that  
8 extension as a variance.

9 Q. So, just to be clear, with HDD, you can  
10 actually turn that off in the middle of  
11 wherever the drill is and walk away for the  
12 night?

13 A. (Bowes) I don't know if I'd characterize it  
14 quite that way, but we could limit the  
15 workhours to 7:00 to 7:00. We might not just  
16 turn off the equipment. We might do some  
17 preparatory measures. But we could then  
18 restart in the morning, yes.

19 Q. So, when you say you "might not turn off the  
20 equipment", what does that mean?

21 A. (Bowes) You characterized it as "turn off the  
22 equipment and walk away".

23 Q. Yes.

24 A. (Bowes) I'm saying we might do other things.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1           There might be some other preparatory things  
2           that we would do, as far as the slurry pits,  
3           the slurry tanks, things like that, that would  
4           be additional safety precautions we would take.  
5           Not saying we would leave the equipment running  
6           overnight, that's not what I meant.

7   Q.     So, there won't be noise involved with that at  
8           the end of the day, after, say, seven o'clock?

9   A.     (Bowes) That's what our plan is filed right  
10          now. Again, there may be circumstances where  
11          it makes sense to go longer duration hours, and  
12          that would be something we would work out with  
13          both the town, as an MOU, and then go to the  
14          State DOT with that as a variance.

15   Q.     Can the DOT variance overrule the town?

16   A.     (Bowes) I have made the statement that we would  
17          not seek the variance without the town going  
18          with us to the DOT Commissioner.

19   Q.     Are you seeking any variances at this time from  
20          DOT with regard to running more than 12 hours a  
21          day?

22   A.     (Bowes) For the HDD portion, no. I did  
23          identify at least one location where we would  
24          seek DOT approval to pull conductors across

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 I-393. And that would probably be a 2:00 a.m.  
2 to, say, 3:00 a.m. job that we would propose in  
3 a single day.

4 Q. So, the HDD drilling process, the three to five  
5 weeks, which has been stated earlier, is that  
6 based on 24-hour operation or on 12-hour  
7 operation?

8 A. (Bowes) I believe it's based on 12-hour  
9 operation.

10 Q. Okay. I represent to you that, in a rural area  
11 such as ours, you can hear a motorcycle from  
12 well over a mile away, and that the typical  
13 ambient sounds in the North Country are birds  
14 singing, wind rustling through the trees, rain,  
15 and water flowing. That's why people live  
16 there.

17 In addition to horizontal directional  
18 drilling generators, can we assume there will  
19 be generators for pumps, lighting, power tools,  
20 cable-pulling winches, air conditioning in the  
21 splice vaults? So, there will be multiple  
22 generators going, is that correct?

23 A. (Bowes) So, there will be multiple generators,  
24 but they might not all be working at the same

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 time. For example, the HDD will be at a  
2 different location than at a splice vault. And  
3 the splicing operations would not take place  
4 the same time that excavation was taking place.

5 So, you're correct in saying that all of  
6 those things could occur, they just wouldn't be  
7 happening all at the same time.

8 Q. Yes. Would you agree that these fracking rigs,  
9 trenching operations, dump trucks, cement  
10 trucks, backhoe equipment, running in tandem up  
11 and down our roads, with as many as five  
12 different sites going on at the same time, do  
13 you think it could be offensive to local  
14 residents for extended periods of time?

15 A. (Bowes) So, you're asking me to state what  
16 other people would think?

17 Q. Uh-huh.

18 A. (Bowes) I'm not sure that I can do that. I  
19 think it's normal construction activity that's  
20 typical with road-building or road-paving  
21 operations. I do agree that there will be  
22 temporary impacts for the underground  
23 construction, as there will be temporary  
24 impacts for the overhead construction.

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 Q. I would answer to that that this particular job  
2 goes way beyond road construction, which is  
3 usually just paving. We're going to be talking  
4 about multiple sites. We're going to be  
5 talking about cutting up pavement to dig  
6 trenches. We're going to have generators.  
7 We're going to have all sorts of noises going  
8 on for 12 hours a day.

9 A. (Bowes) So, I did make the distinction --

10 MR. NEEDLEMAN: I'm going to object  
11 to that, that it's testimony.

12 CHAIRMAN HONIGBERG: Yes. That's not  
13 even a question. So, it's clear you have a  
14 very different viewpoint about this. You  
15 didn't even ask him a question.

16 So, if you have a question, you  
17 should ask it.

18 BY MR. LAKES:

19 Q. Again, I would ask the question, do you think  
20 that some people might find this noise to be  
21 offensive?

22 MR. NEEDLEMAN: Objection.

23 CHAIRMAN HONIGBERG: Sustained. You  
24 just asked him that question and he just

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 answered it. So, let's see if you have a  
2 different question to ask.

3 MR. LAKES: Okay.

4 BY MR. LAKES:

5 Q. I will add to what I just had, is that, you  
6 know, when they're paving the road that may go  
7 on for a week, something like that, two weeks,  
8 this is going on for eight months, over a  
9 two-year period. Eight months over a two-year  
10 period. Do you think that's a fairly long  
11 stretch of time for construction in residential  
12 areas?

13 A. (Bowes) So, I did make a distinction in my last  
14 response between "road construction" and  
15 "paving". Those were two separate activities I  
16 listed. I would agree that this is more like  
17 road construction. There's a certain part of  
18 it that is more like paving, when we do the  
19 final restoration. But I clearly said "road  
20 construction". So, I think it is very typical  
21 of what you do to construct a new road.

22 Q. And just to add a little known fact, which I  
23 think that is just a little point of light, the  
24 beepers on the trucks, of which there's going

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 to be hundreds and hundreds, literally, from  
2 what I understand, 19,000 trucks up and down  
3 this whole thing, that the decibel level on  
4 beepers is 97 to 112 decibels, and can be heard  
5 up to 1.86 miles away.

6 So, I guess my point is that the residents  
7 along this construction area will have to put  
8 up with this noise for extended periods of  
9 time.

10 I will now move on.

11 MR. NEEDLEMAN: Same objection.

12 CHAIRMAN HONIGBERG: I don't think he  
13 asked a question. So, I understand the  
14 objection.

15 MR. LAKES: You're right.

16 BY MR. LAKES:

17 Q. I'd like to ask the panel what they think the  
18 main type of air conditioning that is used in  
19 the North Country?

20 A. (Bowes) Based on what I know about the  
21 residential customer class in New Hampshire,  
22 and Eversource's analysis of that, most do not  
23 have air conditioning.

24 Q. That's correct. Our air conditioning in the

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 North Country is open windows. That's how real  
2 North Country folks stay cool. So, for those  
3 of us who may want to sleep in, residents and  
4 tourists alike, there will be a constant din of  
5 construction noise. The noise will be there at  
6 least six days a week. And dust from  
7 operations will float through the windows as  
8 well. Do you propose that we close our windows  
9 all spring and summer? How will Eversource  
10 rectify our air conditioning problem?

11 A. (Bowes) So, I'm not sure that I can address the  
12 hypothetical you've laid out. If there's an  
13 individual location that we can talk about,  
14 I'll be glad to.

15 Q. Well, if you want to come up and visit us in  
16 the North Country, we can probably take you to  
17 about 500 locations that will have the same  
18 problem, maybe a thousand.

19 CHAIRMAN HONIGBERG: And I'm sure  
20 you'd welcome him with open arms, wouldn't you?

21 MR. LAKES: I would. I actually  
22 would. I have asked many times to have --

23 CHAIRMAN HONIGBERG: It sounds  
24 like you have a meeting of the minds. It



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 sounds like Mr. Bowes is ready to go with you  
2 and look at your property and walk it with you.  
3 So, --

4 MR. LAKES: And tell me how many  
5 times to open my windows.

6 CHAIRMAN HONIGBERG: Well, what else  
7 do you have to cover, Mr. Lakes?

8 MR. LAKES: I still have more.

9 CHAIRMAN HONIGBERG: Interesting.  
10 Mr. Palmer, I believe you estimated 45 minutes  
11 for your group. And, at this point, Mr. Lakes  
12 has used, I believe, 90 of your 45 minutes. Is  
13 this going to be a routine request, I'm  
14 speaking to Mr. Palmer right now, that you're  
15 going to estimate an amount that is just  
16 meaningless?

17 MR. PALMER: Well, you have to  
18 understand that, when you were asking back  
19 three weeks ago, it was difficult, and all of  
20 us were just making the best estimates that we  
21 could at the time.

22 CHAIRMAN HONIGBERG: Then, I think  
23 you're going to need to make better estimates  
24 going forward, because people are trying to

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 plan their days.

2 And I will notify the entire group  
3 that we're going to need to take  
4 Mr. Oldenburg's questions today, from the  
5 Committee, because he can't be here tomorrow  
6 and the next day. So, at some point this  
7 afternoon, we'll let Mr. Oldenburg, from DOT,  
8 ask his questions.

9 I encouraged you at the end of the  
10 last time we were together to think long and  
11 hard about how long you need to ask questions,  
12 because people are planning around what you  
13 estimate. So, please, based on your  
14 experience and what you've seen happen so far,  
15 sharpen your pencils when you make your  
16 estimates. We will all appreciate that. And  
17 I'm not just speaking to you now, Mr. Palmer,  
18 because there are others who are in the same  
19 boat.

20 Mr. Lakes, you may continue.

21 MR. LAKES: I was hoping you would  
22 say it's lunchtime.

23 BY MR. LAKES:

24 Q. Is it not true that NPT knew from the very

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 beginning, when it chose to come down state  
2 roads, that it fully understood the DOT  
3 regulations calling for placing the  
4 transmission line closest to the right-of-way?

5 A. (Johnson) It has always been a condition of the  
6 Utility Manual.

7 Q. So, wasn't this the very same argument used for  
8 not coming down I-93?

9 A. (Johnson) I believe the argument about I-93 was  
10 much more complicated than what we're talking  
11 about here.

12 Q. But one of the arguments was going down the  
13 edge of the road, correct? That was a huge  
14 part of it.

15 A. (Johnson) That is part of the solution, yes.

16 Q. Moving on. Is there any plans to utilize  
17 unpaved land within the road for detours of  
18 traffic?

19 A. (Bowes) Yes.

20 Q. So, do you have to get permission from  
21 landowners, DOT or SEC, if the detour remains  
22 in the right-of-way?

23 A. (Bowes) On state roads, I think it will be part  
24 of our plan for traffic management. On the

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 town roads, I don't think it would be -- we  
2 would seek DOT approval for that.

3 Q. Well, my question is that, you know, you find  
4 "Oh, it's too tight in this area. We need  
5 to -- we need to go off-road to divert some of  
6 the traffic", or divert any piece of equipment  
7 or whatever. Is the landowner brought into any  
8 of those discussions?

9 A. (Bowes) So, the context of my response was  
10 around the seven and a half miles in the North  
11 Country, where we had a lot of testimony around  
12 the narrowness of those roads, and the fact  
13 that we could create a separate lane adjacent  
14 for certain locations. My response was not  
15 pertaining to Easton or Franconia.

16 Q. I'm not sure if I got the answer. I was asking  
17 if a landowner would be brought into the loop  
18 if, on the right-of-way, you're going to be  
19 diverting traffic off the road, through  
20 somebody's yard, but it's still in the  
21 right-of-way?

22 A. (Bowes) Yes. If we filed that plan with the  
23 DOT, and they approved it, we would then talk  
24 to the landowner.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

- 1 Q. So, who talks to the landowner, the DOT or NPT?
- 2 A. (Bowes) The Project would.
- 3 Q. What if the landowner says "no"?
- 4 A. (Bowes) We would try to work something out,  
5 first of all. We're not seeking their  
6 permission to do that. But we would try to  
7 accommodate their needs, if they are  
8 reasonable.
- 9 Q. If tree removal is necessary on the trench side  
10 of the road, will landowners be brought into  
11 the process before removal?
- 12 A. (Bowes) Yes. Again, we have not identified any  
13 tree removals that are necessary. But, if it  
14 becomes necessary, yes.
- 15 Q. Is it the DOT that needs to be notified of tree  
16 removal or is it Eversource?
- 17 A. (Bowes) I'm not sure I understand the question.  
18 Who is notifying whom in this case?
- 19 Q. I'm saying, does the DOT -- or, is the DOT  
20 notified of tree removal?
- 21 A. (Bowes) By Eversource or by Northern Pass?
- 22 Q. Yes. In other words, is somebody notified or  
23 is it left to the discretion of the contractor  
24 crews, as necessary?

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 A. (Bowes) Now I understand. So, the contractor  
2 would have to get permission of Northern Pass  
3 to do any tree removals. I'm not sure what the  
4 notification or permission requirements are  
5 with the DOT, or the DES, as Mr. Johnson  
6 reminds me.

7 Q. Are you aware that, at present, when Eversource  
8 is clearing trees around an overhead line, this  
9 is on the road now, distribution lines, they  
10 need to first get permission from the  
11 landowner, and the landowner can and does, in  
12 many instances, stop the tree-cutting. Are you  
13 aware of this?

14 A. (Bowes) In certain circumstances, you are  
15 correct, yes.

16 Q. From my understanding, the standard operating  
17 procedure is that Eversource is supposed to  
18 contact the homeowner when there's tree-cutting  
19 going on. And, if the homeowner has any issues  
20 with that, they can tell them "No, you're not  
21 going to cut these trees", and they leave them.  
22 I know people that have gone through that very  
23 same process.

24 A. (Bowes) In certain circumstances, you are

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

1 correct.

2 Q. So, my point is this: Eversource recognizes  
3 the right of ownership of the landowner with  
4 regard to overhead lines, but those very same  
5 rights do not exist when cutting a gash or  
6 dropping half a house in someone's yard. How  
7 do you square that off?

8 A. (Bowes) Again, I think I responded to the  
9 vegetation management that, in certain cases,  
10 we do seek landowner permission. In this case,  
11 we're seeking permission to use the  
12 right-of-way from the DOT.

13 Q. Yes. And you're seeking permission from the  
14 landowner, and you're actually giving that  
15 landowner the right of ownership of that  
16 property by letting them tell you what trees to  
17 cut down and what trees not to cut down.

18 A. (Bowes) In specific --

19 MR. NEEDLEMAN: Objection. It's  
20 argumentative.

21 CHAIRMAN HONIGBERG: You can answer.

22 **BY THE WITNESS:**

23 A. (Bowes) In specific circumstances, you are  
24 correct.

[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 BY MR. LAKES:

2 Q. Is there any plans to detour traffic from the  
3 highways down town roads?

4 A. (Bowes) At what location?

5 Q. Any location.

6 A. (Bowes) Yes. There are detours identified that  
7 utilize state roads at this point, and town  
8 roads for the North Country seven and a half  
9 miles underground.

10 Q. So, when you say that there's detours that are  
11 identified, it may turn out that residents who  
12 think they're in the clear, with regard to  
13 what's happening down on the main road, could  
14 find their back road loaded up with traffic.  
15 Is that possible?

16 A. (Bowes) Yes. It's possible.

17 CHAIRMAN HONIGBERG: Mr. Lakes,  
18 we're going to break for lunch now. Off the  
19 record.

20 *[Brief off-the-record discussion*  
21 *ensued.]*

22 CHAIRMAN HONIGBERG: So, back on the  
23 record. We'll break for lunch, and return as  
24 close to 1:30 as we can, although it might be a



[Bowes~Bradstreet~Farrington~Johnson~Kayser~Scott]

1 little bit later.

2 (Lunch recess taken at 12:18

3 p.m. and concludes the **Day 10**

4 **Morning Session.** The hearing

5 continues under separate cover

6 in the transcript noted as

7 **Day 10 Afternoon Session ONLY.**)

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

{SEC 2015-06} [Day 10/Morning Session ONLY] {05-31-17}

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

**C E R T I F I C A T E**

I, **Steven. E. Patnaude**, a Licensed Shorthand Court Reporter, do hereby certify that the foregoing is a true and accurate transcript of my stenographic notes of these proceedings taken at the place and on the date hereinbefore set forth, to the best of my skill and ability under the conditions present at the time.

I further certify that I am neither attorney or counsel for, nor related to or employed by any of the parties to the action; and further, that I am not a relative or employee of any attorney or counsel employed in this case, nor am I financially interested in this action.

---

Steven E. Patnaude, LCR  
Licensed Court Reporter  
N.H. LCR No. 52  
(RSA 310-A:173)